NYPL RESEARCH LIBRARIES
3 3433 10772 5099

CHILTON AUTOMOTIVE MULTI-GUIDE

AUTUMN 1930

BENDIX BRAKES—BENDIX DRIVE
STROMBERG CARBURETORS

BENDIX BRAKE COMPANY, South Bend, Indiana
Brakes for Motor Vehicles and Airplanes
HYDRAULIC BRAKE COMPANY, Detroit, Michigan
Hydraulic Brakes for Motor Vehicles
BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE COMPANY, Pittsburgh, Pa.
Air Brakes for Motor Vehicles
BRAGG-KLIESRATH CORPORATION, Long Island City, New York
Vacuum Booster Brakes
BENDIX-COWDREY BRAKE TESTER, INC., South Bend, Indiana
Brake Service Equipment
ECLIPSE MACHINE COMPANY, Elmira, New York
Bendix Starter Drive
BENDIX-STROMBERG CARBURETOR COMPANY, South Bend, Indiana
Automotive and Aviation Carburetors
BENDIX SERVICE CORPORATION, Chicago, Illinois
National Service for Bendix Products

BENDIX AVIATION CORPORATION · CHICAGO · NEW YORK

BENDIX
AUTOMOBILE—AVIATION
PRODUCTS

Digitized by Google

This is a reproduction of a library book that was digitized by Google as part of an ongoing effort to preserve the information in books and make it universally accessible.

Google™ books

https://books.google.com

MANHATTAN CABLE
S.A.E. AND CODE QUALITY

For Every Automotive Requirement

Spark Plug Wires

and assemblies for Chevrolet, Dodge, Ford and other large production makes.

IGNITION CABLE SETS

Furnished in 12 assortments covering ignition cable requirements for all car makes. The cable used has 12 coats of Insulac—the lacquer finish that is unaffected by gas, oil, grease or corona. Each set is complete with cables cut to approximate length for wiring distributor to spark plugs with spark plug terminals attached; coil to distributor cable; distributor terminals and rubber hoods.

Cable Display

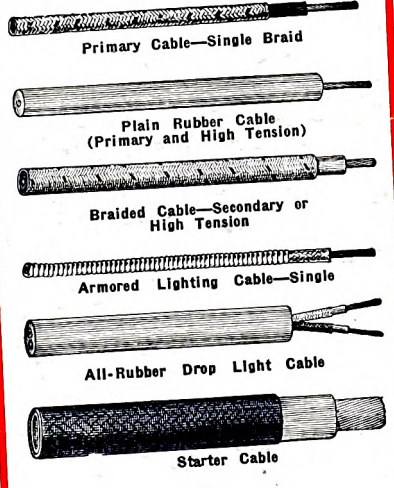
In 2 assortments—heavy types, medium types. Both assortments contain 10 spools of most used sizes, 100 feet to the spool.

Jr. Cable Display

contains five 100-foot spools that meet practically all cable demands.

WIRES *and* CABLES

Made in strict accordance to S. A. E. standards. All Manhattan Cables are protected with multiple coats of Insulac—unaffected by gas, oil or grease.


Primary Cable—Single Braid
Plain Rubber Cable (Primary and High Tension)
Braided Cable—Secondary or High Tension
Armored Lighting Cable—Single
All-Rubber Drop Light Cable
Starter Cable

"Ask your Jobber Salesman"

Battery Cables Group System

Arranged in 34 groups that meet every demand for battery replacement cables. Packed individually. Plainly marked. Group assortments arranged with display stand, which is furnished free. Three assortments containing 64 cables, 52 cables, or 32 cables and 14 ignition cable sets.

Battery Replacement Cables

Also furnished with wall display rack in three assortments of 57, 41 or 20 cables.

MANHATTAN INSULATED WIRE CO.
17-23 West 60th St., New York City

Export Representative
CHAS. F. LYNGAAS CO.
Bush Terminal Bldg. No. 19
Brooklyn, N. Y.

Continental Europe
CORNELIUSSEN & STAKGOLD, A./S.
Oslo, Norway

Digitized by Google

2004
DEC 17 SON

ELEPHANT BRAND "Phosphor Bronze"

REG. U.S. PAT. OFF.

Quality is the Best Assurance of Satisfaction

BUSHINGS

Cast in the Rough 12" long. Carried in Stock

THE FIGURES PRINTED IN RED ARE APPROXIMATE WEIGHTS APPLYING TO EACH 12-INCH LENGTH BUSHING.

Outside Diameter	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	SOLIDS Size	Lbs.
1"	½" 2¼	SIZE OF CORES						SIZE OF CORES								SIZE OF CORES			½"	¾
1¼"	¾" 2¼	⅛" 3																	⅝"	1¼
1¼"	¾" 3	⅛" 3½	½" 4																¾"	1¾
1⅜"	⅞" 3½	¾" 4	¾" 4½	½" 5															⅞"	2½
1½"	1" 4¼	⅜" 4½	¾" 5	⅝" 5¾	½" 6														1"	3½
1⅝"	1⅛" 4½	1" 5	⅞" 5¾	¾" 6¼	⅝" 7														1⅛"	4
1¾"	1¼" 4½	1⅛" 5¼	1" 6½	⅞" 7	¾" 7¾	⅝" 8													1¼"	4¾
1⅞"		1¼" 5⅝	1⅛" 6¾	1" 7½	⅞" 8½	¾" 9	⅝" 9½												1⅜"	6½
2"		1⅜" 6¼	1¼" 7¼	1⅛" 8¼	1" 9	⅞" 9¾	¾" 10¼												1½"	7¼
2⅛"		1½" 7½	1⅜" 8¾	1¼" 10	1⅛" 10½	1" 11	⅞" 12¼	¾" 13											1⅝"	8½
2¼"		1⅝" 7¾	1½" 9	1⅜" 9¾	1¼" 10¾	1⅛" 11¼	1" 12	⅞" 13											1¾"	9¾
2⅜"			1⅝" 9¾	1½" 10½	1⅜" 11½	1¼" 12½	1⅛" 13⅓	1" 14											1⅞"	11
2½"			1¾" 10½	1⅝" 12	1½" 12½	1⅜" 13	1¼" 14½	1⅛" 15	1" 17¼										2"	13
2⅝"				1¾" 12¼	1⅝" 13½	1½" 14¼	1¼" 15	1¼" 16¼	1⅛" 18½										2¼"	14¼
2¾"				1⅞" 12½	1¾" 13¼	1⅝" 15	1½" 16½	1⅜" 17¼	1¼" 20										2¼"	15½
2⅞"					1⅞" 14¾	1¾" 16	1⅝" 17½	1½" 18½	1⅜" 21										2⅝"	17
3"					2" 15½	1⅞" 16¾	1¾" 18	1⅝" 19¼	1½" 21	1⅜" 21¾									2½"	19
3⅛"					2⅛" 17½	2" 16¾	1⅞" 18⅓	1¾" 20	1⅝" 20¼	1½" 21½	1⅜" 22½								2⅝"	21
3¼"					2¼" 18	2⅛" 19¼	2" 20¾	1⅞" 22¾	1¾" 24¼	1⅝" 26	1½" 27½								2¾"	23
3⅜"					2⅜" 19	2¼" 18¾	2⅛" 20½	2" 21¾	1⅞" 23½	1¾" 24	1½" 25½								2⅞"	25¼
3½"					2½" 19	2⅜" 20½	2¼" 22¼	2⅛" 24¼	2" 25½	1⅞" 26¾	1¾" 28								3"	28½
3⅝"					2⅝" 20¾	2½" 20	2⅜" 22¼	2¼" 24	2⅛" 25	2" 27	1⅞" 28½	1⅝" 35							3¼"	32¼
3¾"					2¾" 20	2⅝" 22¼	2½" 24½	2⅜" 26	2¼" 28	2¼" 29	2" 30½	1¾" 38½							3½"	35¼
3⅞"					2⅞" 22½	2¾" 21½	2⅝" 23½	2½" 26½	2⅜" 28	2¼" 29¼	2¼" 31	1⅞" 38							3¾"	43
4"					3" 23½	2⅞" 24¾	2¾" 26½	2⅝" 27½	2½" 31	2⅜" 32	2¼" 34¾	2" 40							4"	40¼
4¼"					3¼" 24¾	3" 28¾	2¾" 30½	2¾" 32¼	2⅝" 34½	2½" 36¾	2¼" 43									
4½"						3¼" 30¼		3" 35¾	2⅞" 36¾	2¾" 39	2½" 45									
4¾"						3½" 32¼		3⅛" 36¾		3" 41¾	2¾" 46									
5"						3¾" 34¼		3¼" 39½		3¼" 45	3" 49¼									
5¼"						4" 38¾		3⅜" 43½		3⅜" 48¾	3¼" 54									
5½"						4¼" 40½		4" 45¾		3½" 51¼	3½" 56¼									
5¾"						4½" 42¾		4¼" 48½		4" 54½	3¾" 59									
6"						4¾" 44		4½" 51		4¼" 56¾	4" 62¾									
6¼"								4¾" 55		4½" 62½	4¼" 69¾	4" 76¾								
6½"								5" 57½		4¾" 63½	4½" 73¼	4¼" 80½								
6¾"								5¼" 60		5" 68½	4¾" 76½	4½" 84¼								
7"										5¼" 71¼	5" 79¾	4¾" 88	4½" 95½							
7½"										5½" 74	5¼" 83	5" 91½	4¾" 99½							
7½"										5¾" 77¼	5½" 86½	5¼" 95¾	5" 104							
7¾"											5¾" 90	5½" 99	5¼" 108	5" 116						
8"											6" 93	5¾" 104	5½" 112	5¼" 122						
8¼"											6¼" 96	6" 107	5¾" 116	5½" 126						
8½"											6½" 99	6¼" 110	6" 119	5¾" 130						
8¾"											6¾" 103	6½" 114	6¼" 125	6" 135						
9"												6¾" 118	6½" 129	6¼" 139	6" 149					
9¼"												7" 121	6¾" 133	6½" 144	6¼" 154					
9½"												7¼" 125	7" 137	6¾" 148	6½" 159					
9¾"												7½" 129	7¼" 141	7" 153	6¾" 164					
10"												7¾" 133	7½" 145	7¼" 158	7" 169					
	THICKNESS OF WALL							THICKNESS OF WALL								THICKNESS OF WALL				
	¼"	⅜"	½"	⅝"	¾"	⅞"	1"	1⅛"	1¼"	1⅜"	1½"									

THE PHOSPHOR BRONZE SMELTING CO.

2200 WASHINGTON AVENUE, PHILADELPHIA, PA.

3-TOL
Chilton
Digitized by Google

AUTOMOBILE CLOCKS

THORTON
8 Day Jewelled Movement
Radium Dial
List Price $15.00

This new line of 8-Day Automobile Clocks has instant appeal and its reliability is backed up by the experience of our 113 years as clock makers.

The various models are equipped with swivel and stationary brackets, permitting adjustment for greater visibility. Jewelled movements built to withstand the vibration of motoring are installed in a variety of handsomely finished cases and are easily transferred from the old car to the new, without leaving holes. A screw driver is the only necessary tool for installation. All models are adaptable for above the windshield or on the instrument board. Furnished on attractive display board at no additional cost.

The illustration below is our exceedingly popular Auto model, a reliable sturdy clock built to give lasting satisfactory service. The attractive oval case contains a 30-hour movement fitted with the non-breakable crystal. This clock is easily installed above the windshield or on the instrument board. A screw driver is the only necessary tool.

For display purposes the No. 801 Auto Clock assortment is recommended—a strongly built wooden board — lacquered in beautiful shade of green with black border — the assortment contains three Auto plain dial and three Auto radium dial. An easel back permits the display to be used as a window trim or a counter display. Suitable labels attract the attention instantly.

AUTO

Plain Dial	Radium Dial
List Price	List Price
$2.00	$3.00

THE NEW HAVEN CLOCK COMPANY
AUTOMOBILE CLOCK DIVISION
NEW HAVEN, CONN.

Digitized by Google

CHILTON AUTOMOTIVE MULTI-GUIDE

Registered in U. S. Patent Office

The Original Guide to Interchangeable Parts for Motor Vehicles, Including also Replacement Parts Sizes, Directory of Supplies, Lists of Companies and Other Reference Information

Compiled and Edited Especially for wholesalers of parts, accessories, tools, shop equipment; distributors and retailers of passenger cars, motor trucks and buses; repair shops, service managers, accessory stores, truck and bus fleet operators, sales executives.

Copyright, 1930, by Chilton Class Journal Company

Published in Spring and Autumn by

CHILTON CLASS JOURNAL COMPANY

Chestnut and Fifty-sixth Sts. Philadelphia, Pa.

NEW YORK 239 W. 39th St.
CHICAGO 5 So. Wabash Ave.
CLEVELAND 1140 Guardian Bldg.
DETROIT 710 Stephenson Bldg.

C. A. MUSSELMAN, *President and General Manager*
J. S. HILDRETH, *Vice-President and Director of Sales*
W. I. RALPH, *Vice-President*
G. C. BUZBY, *Vice-President*
A. H. VAUX, *Secy. and Treas.*
J. A. CLEMENTS, *Ass't Treas.*
T. L. KANE, *Business Manager*
G. D. ROBERTS, *Advertising Mgr.*

Publishers of

Automobile Trade Journal
Commercial Car Journal
Chilton Aero Directory and Catalog
Automotive Industries
Automotive Industrial Red Book
Chilton Automotive Multi-Guide
Motor World Wholesale

Controlled by

UNITED BUSINESS PUBLISHERS, INC.
239 W. 39th St. New York City

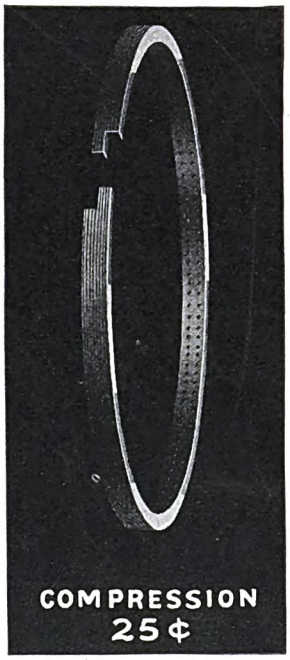
A. C. PEARSON, *Board Chairman*
F. J. FRANK, *President*
C. A. MUSSELMAN, *Vice-Pres.*
F. S. STEVENS, *Treasurer*

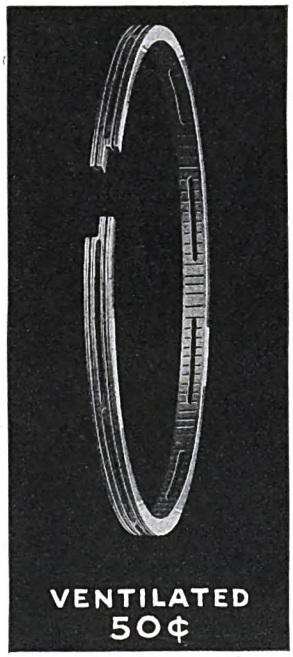
AUTUMN 1930

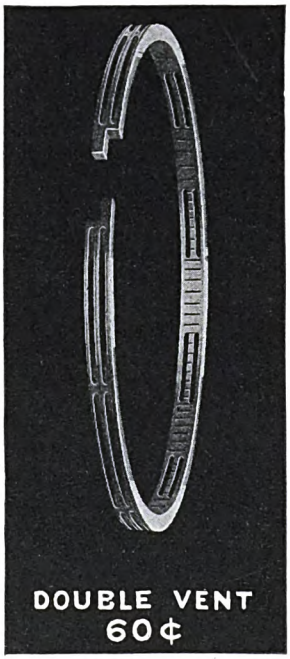
Digitized by Google

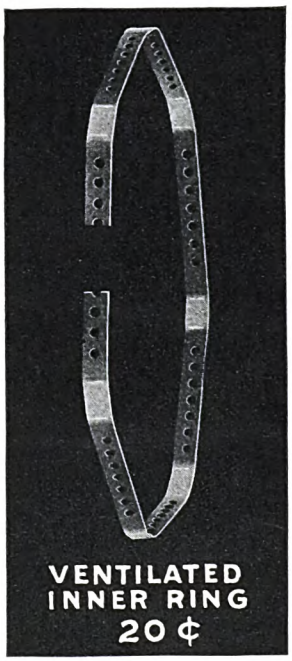
THE NEW YORK
PUBLIC LIBRARY
516482 A
ASTOR, LENOX AND
TILDEN FOUNDATIONS
R 1931 L

American Hammered Piston Rings









A Ring for every Purpose

COST NO MORE THAN UNHAMMERED RINGS

Digitized by Google

Contents

For Detailed Alphabetical Index to Contents See Pages 7, 9

	Page
Advertisers' Index	12-13
Advertisements (except special positions)	14-173
Anti-Freeze Mixture Guide	340-341
Aviation Facts	195
Classified Buyers' Guide	343
Directory of Supplies and Catalogs	343
Export and Foreign Data	197-198
Historical Data	175-177
Interchangeable Parts Data	199-308
For Detailed Index to Units and Parts Included See Page 200	
List of All Manufacturers	400
Merchandising and Market Data	174-198
Orphan Parts Sources	342
Replacement Parts Sizes (Selected)	313-338
For Detailed Index to Parts Included See Page 309	
Serial Numbers, Passenger Cars (5 years back)	310-312
Shop Equipment Data	185-188
Trade Associations	425
Trade Name Index	420
Truck Fleet Data	191-194

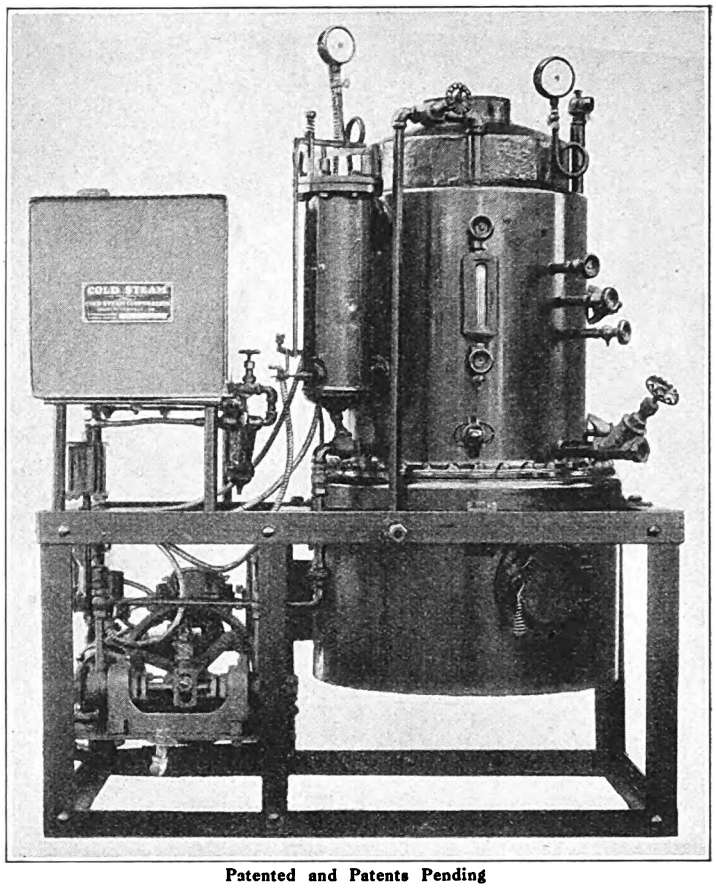
For Detailed Alphabetical Index to Contents See Pages 7, 9

Digitized by Google

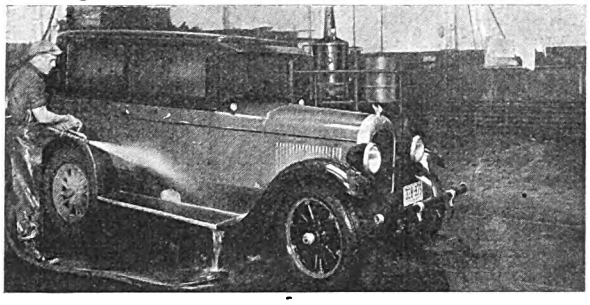
COLD STEAM

(COPYRIGHTED)

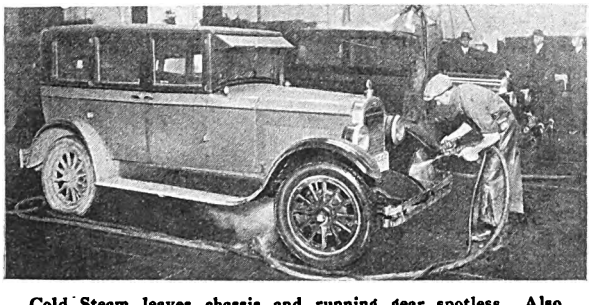
THE MOST PROFITABLE AUTO WASHER



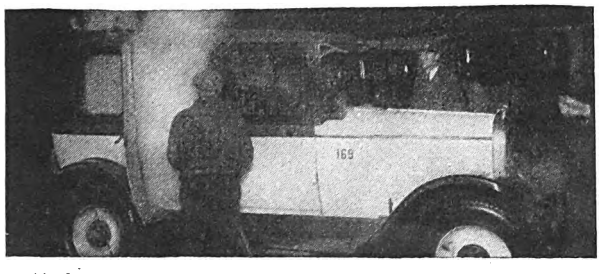
Patented and Patents Pending



Body cleaning without the least injury to the finish.



Cold Steam leaves chassis and running gear spotless. Also cleans disassembled auto parts free from grease and dirt, leaving them like new.



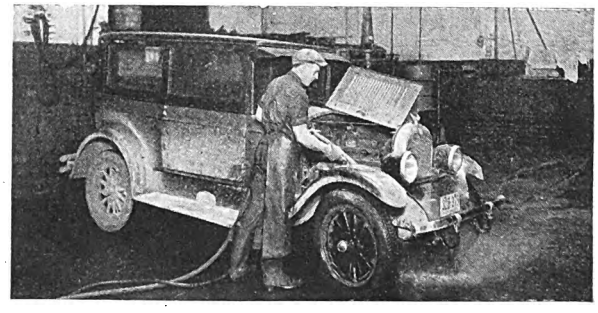
Taxi companies use Cold Steam to clean and sterilize interiors.

Cleans Everything–*Body, Chassis, Engine, Parts and Upholstery*

Cold Steam turns auto laundry work into a really profitable business by performing *all* necessary operations, in less time and with greater efficiency than by other existing methods.

It uses steam, yet it will not mar the finest car finish. The most obdurate caking of under chassis parts yields to its forceful, non-injurious stream. Upholstery is cleaned with dry steam without leaving a trace of moisture. Grease, oil and dirt vanish from engine and engine parts, leaving them like new.

Cold Steam is so economical to operate and cleans so quickly and thoroughly that it will pay you to investigate fully this wonderful profit maker. Ask us how and why on your business stationery. Cold Steam Corporation, Charlottesville, Va.



The dirtiest of motors cleaned in 5 to 10 minutes.

Digitized by Google

Purpose of This Book

¶ To furnish you essential information, condensed and easily found, all in one place.

¶ This information includes a table showing the interchangeability of one hundred parts in over four hundred and fifty car models. Some parts can be used in two hundred or more models. Over two hundred and fifty thousand items. See Pages 199–305.

¶ It includes an alphabetically arranged list of leading manufacturers selling the trade, and their addresses. Also an alphabetically arranged trade name list. These two lists, and the interchangeable tables, were never available anywhere before.

¶ Also includes here in one place a collection of facts and figures on Marketing, Production, History, Registration, Shop Equipment, Fleet Operation, and so forth.

¶ From its predecessor, *Chilton Catalog and Directory,* it has retained for you the Buyers' Guide, Specifications, Orphan Car Parts List, Serial Numbers, and all other important features.

¶ The type page size has been nearly doubled to make it possible for advertisers to supply you buying and their selling information in a more thorough manner.

The Detailed Table of Contents, Pages 7, 9, will show you what a collection of helpful information you have all in one place.

Digitized by Google

THE BEST WAY
to do anything is
THE RIGHT WAY

FUNDAMENTALLY CORRECT FOR

NEW MOTORS REBUILT MOTORS REGROUND BLOCKS

Marvel Mystery Oil blends instantly with motor fuel and crank case oil reducing to a minimum danger of seizure and excessive wear.

Higher motor speed can be maintained with less friction and at a lower operating temperature.

CRANK CASE TRANSMISSION DIFFERENTIAL

Marvel Mystery Oil resists cold, not becoming solid at 70 degrees below zero, therefore holding other oils and greases in their natural state at all times in addition to the promotion of better lubrication when Marvel Mystery Oil is added to them.

VALVES LUBRICATORS SPRINGS

Marvel Mystery Oil applied with the Marvel Mystery Oil Rifle direct to valves frees them instantly due to an exclusive feature of this oil's ability to lubricate after combustion.

Ideal for all types of oilers and lubricators.

For correct spring action use Marvel Mystery Oil with the Marvel Mystery Oil Rifle.

MARVEL MYSTERY OIL

MANUFACTURED BY

EMEROL MANUFACTURING CO., 242 West 69th St. NEW YORK, N. Y.

Digitized by Google

CONTENTS

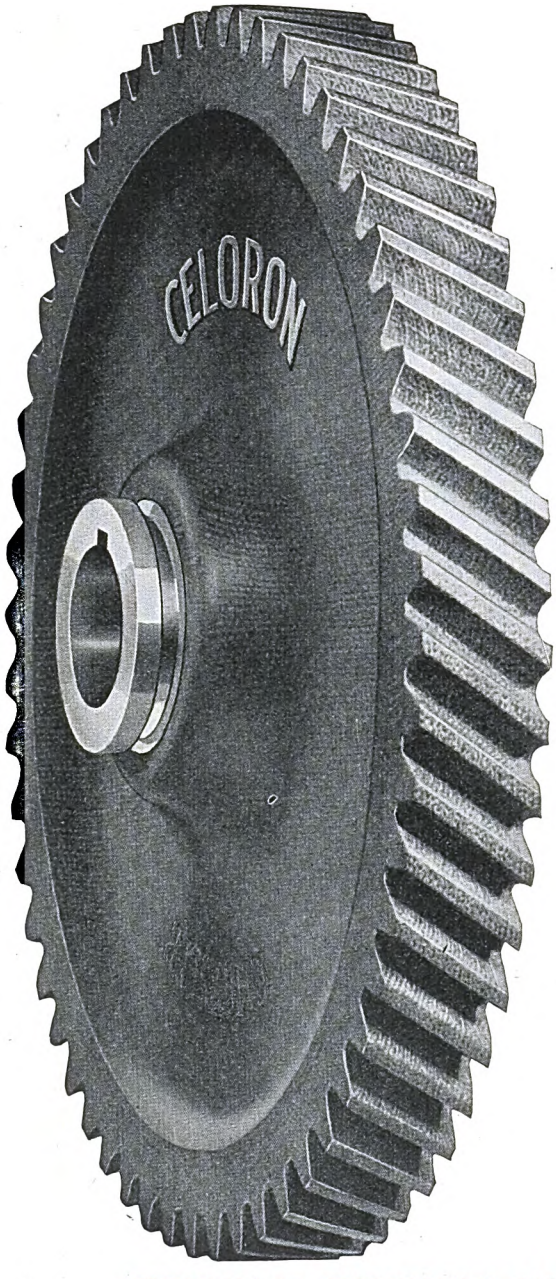
Detailed Alphabetical Index

For Detailed Index to Individual Items in Various Tables of Interchangeability See Pages 199-200

	Page
A	
Accessories, Export of	197
Accessories, When Some First Used	175
Accessory Stores, Count by States	607
Advertisers' Index	12
Aircraft Dealers, Count by States	195
Aircraft Production for 9 Years	195
Aircraft Registration, Count by States	195
Airports, Count by States	195
Anti-Freeze Mixtures	340
Associations, Trade	425
Automobile Parts, When Some Were First Used	175
Automobiles, Gasoline, Years When Mentioned First	177
Automobiles, Types, When Some Appeared First	175
Aviation, Safety of	195
Aviation Schools, Count by States	195
Axle and Parts, *Interchangeability*	294
Axle Assembly, Rear, Estimated Jobs	181
B	
Battery and Electrical Department, Equipment Needed	185
Bearing Jobs, Estimated	181
Bearings, *Interchangeability*	221
Birth Dates of Automobiles, Gasoline	177
Bodies Used on Trucks	194
Body Capacity Requirements by Commodities	191
Body Parts List, by Make of Part	306
Body Type, Production Analyzed by	181
Body Types, When Some Introduced First	175
Brake and Parts, *Interchangeability*	260
Brake Lining Sizes, Motor Trucks	331
Brake Lining Sizes, Passenger Cars	329
Brake Service Department, Equipment Needed	185
Brakes Relined, Estimated Jobs	181
Brand Names Index	420
Bulbs, Lamp, by Car Models, Etc.	337
Bushing Sizes, Piston Pin	314
Buyers' Classified Directory	343
C	
Camshaft and Parts, *Interchangeability*	210
Capacity of Cooling Systems	340
Capacity of Crankcase	339
Caps, Gasoline Tank Filler, *Interchangeability*	282
Caps, Radiator Filler, *Interchangeability*	300
Car Dealers, Count by States	607
Car Manufacturers, Rank by Sales, 1929	174
Car Production, 16-Year Record	180
Car Production, Analyzed by Cylinders, 4 Years	180
Car Production by Body Types	181
Car and Truck Production, Analyzed by Months	180
Car Registration, Count by States	179
Car Sales by Make	174
Car Sales by Months	181
Car Sales, Per Cent by Makes, 1928-29-30	174
Car Sales Per Dealer by States	179
Cars, Gasoline, List of Important Names	177
Cars, per Accessory Store	179
Cars, per Repair Shop	179
Cars, When Started	177
Chains, Timing, *Interchangeability*	210
Chain Store Sales Compared to Independent	184
Cities and Towns by Population by States	179
Cities Having 100,000 or More Vehicles, 1929	184
Classified Buyers' Directory	343
Clutch and Clutch Parts, *Interchangeability*	289
Clutch Jobs, Estimated	181
Commodities, Weight of	191
Connecting Rods, *Interchangeability*	201
Cooling System Capacity	340
Cooling System, *Interchangeability*	300
Cost, Car Operation per Mile	190
Cost, Truck Operating	183, 194
Cowl-Lamp Numbers	337
Crankcase Oil Capacity	339
Crankshaft, *Interchangeability*	210
Cylinders, Car Output Analyzed by	180
D	
Dealers, Aircraft, Count by States	195
Dealers, Car, by States	179
Dealers, Source or Origin of	184
Dealers, Tire, Analysis	190
Decimal Conversion Table	188
Differential, *Interchangeability*	294
Directory of Manufacturers by Products	343
Directory of Manufacturers by Company Name	400
Directory of Trade Associations	425
Directory of Trade Names	420
Discount Table	196
Distributing Centers, Foreign Countries	198
Distributor and Parts, Ignition, *Interchangeability*	242
E	
Earlies	175
Electrical and Battery Dept., Equipment Needed	185
Electrical Parts, Export of	197
Engines, Aircraft, Production for 9 Years	195
Engineering Developments, When Some Appeared First	175
Engine Parts, *Interchangeability*	201
Engine Jobs, Estimated	181
Engine Parts Sizes	314
Engines, Bus, Make and Model List	328
Engines, Motor Truck, Make and Model List	322
Engines, Passenger Cars, Make and Model List	321
Equipment (see under Shop Equipment)	
Ethyl-Glycol Mixtures, Anti-Freeze	340
Events, Some Automotive Firsts	175
Exhaust Pipe Diameters	338
Exports of U. S. Vehicles	197
F	
Fan Belts, *Interchangeability*	300
"Firsts" in Designs, Engineering, Materials, Etc.	175
Flat Rate Operations, Tools Used for	186
Fleet Operating Cost	183, 194
Fleets, Capacity by Commodities	191
Fleets, Truck, Count by Size by States	193
Fleets, Truck, Count by Service Shops Owned	193
Foreign Markets, Data on	197, 198
Front-End Jobs, Estimated	181
G	
Gasoline, Average Truck Miles per Gallon	194
Gasoline Consumption by States	179
Gas Tax Rates by States	179
Generator and Generator Parts, *Interchangeability*	254
Glycerine Mixtures, Anti-Freeze	340
H	
Headlight Lens Diameters	336
Headlight Mazda Lamp Numbers	337
Highway Mileage by States	178
Highway Mileage, Foreign Countries	198
History, Birth Date of Cars	177
History, First Records of Events	175
History, Registration	183
I	
Ignition System Parts, *Interchangeability*	242
Income by States	178
Instrument Board Lamp Numbers	337
Interchangeable Parts Information	199

Digitized by Google

THE TIMING GEAR YOU NEED! WHEN YOU NEED IT!



The Continental-Diamond Fibre Company — through the N.A.P.A. has solved the problem of supplying you with Celoron Silent Timing Gears and Metal Timing Gears for all cars—trucks and buses using gear timing.

64 WAREHOUSES OF THE N.A.P.A., LISTED BELOW, CARRY COMPLETE STOCKS OF EVERY GEAR YOU'LL EVER NEED. OVER 600 CELORON-NAPA JOBBERS CAN CALL ON THE NEAREST OF THESE WAREHOUSES FOR THE GEAR YOU NEED AND GET DELIVERY OVERNIGHT OR SOONER!

Akron, Ohio.
Automotive Parts Co.,
198 E. Center St.

Atlanta, Ga.
Genuine Parts Co.
289 Ivy St.

Baltimore, Md.
Quaker City Motor Parts Co.,
1213 Maryland Ave.

Birmingham, Ala.
Lawson Auto Parts Co., Inc.
208 S. 21st.

Boise, Idaho.
Colyear Motor Sales Co.,
1106 Main St.

Boston, Mass.
Campbell Motor Parts Corp.
709 Beacon St.

Buffalo, N. Y.
Unit Parts Corp.,
1487 Main St.

Calgary, Canada.
Taylor, Pearson & Carson, Ltd.,
708 Fourth St., W.

Chicago, Ill.
Standard Unit Parts Corp.,
2027 S. Michigan Ave.

Cincinnati, Ohio.
Automotive Parts Co.,
1104 Race St.

Cleveland, Ohio.
Automotive Parts Co., of Ohio,
1854 E. 23rd St.

Columbus, Ohio.
Automotive Parts Co.,
155 N. 5th St.

Dallas, Texas.
Motor Parts Depot, Inc.,
2204 Commerce St.

Denver, Colo.
The Gall Auto Spec. Co.,
1322 Lincoln St.

Des Moines, Iowa.
Standard Motor Parts Co.,
1310 Grand Ave.

Detroit, Mich.
Automotive Parts Corp.,
101 Selden Ave.

Fort Worth, Texas.
Motor Parts Depot,
209 W. 2nd St.

Fresno, Cal.
Colyear Motor Sales Co.,
1358 Van Ness Ave.

Grand Rapids, Mich.
Automotive Parts Corp.,
323 Ionia Ave., N.W.

Harrisburg, Pa.
Quaker City Motor Parts Co.,
4 S. 11th St.

Hollywood, Cal.
Colyear Motor Sales Co.,
1522-24 Cahuenga Ave.

Houston, Texas.
Motor Parts Depot, Inc.,
1011 Caroline St.

Indianapolis, Ind.
Central Motor Parts Co.,
421 N. Capitol Ave.

Jacksonville, Fla.
Auto Parts Co.,
W. Duval & Clay Sts.

Kansas City, Mo.
General Auto Parts Co.,
1733 McGee St.

Long Beach, Cal.
Colyear Motor Sales Co.,
1069 American Ave.

Los Angeles, Cal.
Colyear Motor Sales Co.,
1228 S. Hill St.

Louisville, Ky.
Motor Parts Depot,
205 Broadway, E.

Medford, Ore.
Colyear Motor Sales Co.,
411 E. Main St.

Memphis, Tenn.
Standardized Parts Corp.,
357-359 Madison Ave.

Milwaukee, Wis.
Standard Unit Parts Corp.,
767 N. Jackson St.

Minneapolis, Minn.
Standard Unit Parts Corp.,
52 S. 12th St.

Montreal, Que., Canada.
John Millen & Son,
321 St. James St.

Nashville, Tenn.
Auto Bearing & Parts Co., Inc.,
6th Ave. & Commerce

New York, N. Y.
Chadick, Delamater Corp.,
167 W. 64th St.

Oakland, Cal.
Colyear Motor Sales Co.,
355 24th St.

Oklahoma City, Okla.
General Automotive Parts Co.,
27 W. 3rd St.

Omaha, Neb.
Motor Parts Corp.,
2574 Harney St.

Phila., Pa.
Quaker City Motor Parts Co.,
2512 N. Broad St.

Pittsburgh, Pa.
Superior Motor Parts Co.
5614 Penn Ave.

Portland, Ore.
Colyear Motor Sales Co.,
8th & Couch St.

Richmond, Va.
Motor Parts Corp.,
821 W. Broad St.

Sacramento, Cal.
Colyear Motor Sales Co.,
1020-22 16th St.

St. Louis, Mo.
Authorized Motor Parts Corp.,
3221 Locust St.

St. Paul, Minn.
Standard Unit Parts Corp.,
166 W. 6th St.

Salem, Ore.
Colyear Motor Sales Co.,
455 Ferry St.

Salt Lake City, Utah.
Mendenhall Auto Parts Co.,
36 S. W. Temple

San Antonio, Texas.
Motor Parts Depot,
304 Broadway

San Francisco, Cal.
Colyear Motor Sales Co.,
1238 Van Ness Ave.

Saskatoon, Canada.
Wood-Vallance, Ltd.

Seattle, Wash.
Colyear Motor Sales Co.,
919 E. Pine St.

Spokane, Wash.
Colyear Motor Sales Co.,
First Ave. & Jefferson St.

Syracuse, N. Y.
Unit Parts Syracuse Corp.,
500 E. Water St.

Tacoma, Wash.
Colyear Motor Sales Co.,
723 Broadway

Toronto, Ont., Can.
National Automotive Parts, Ltd.,
865 Bay St.

Vancouver, Canada.
Vancouver Parts Co., Ltd.,
1365 Seymour St.

Walla Walla, Wash.
Colyear Motor Sales Co.,
222 E. Main St.

Washington, D. C.
Quaker City Motor Parts Co.,
2206 14th St., N.W.

Winnipeg, Canada.
Marshall-Wells Co.

Yakima, Wash.
Colyear Motor Sales Co.,
122 S. 2nd St.

Youngstown, Ohio.
Automotive Parts Corp.,
19 E. Woodland Ave.

Export Representatives
W. D. Blood & Co.,
30 Water St.,
New York, N. Y.

THESE N.A.P.A. WAREHOUSES CARRY COMPLETE STOCKS OF ALL REPLACEMENT PARTS

CELORON TIMING GEARS

Digitized by Google

CONTENTS, Detailed Alphabetical Index—Continued

L

Page

Lamp Numbers, Mazda ... 337
Lens Diameters, Headlight ... 336
Lining Sizes, Brake ... 329
List of all Manufacturers ... 400
Loads, Truck, by Commodities ... 191
Lubricating Department, Equipment Needed ... 185

M

Manufacturers Listed Alphabetically ... 400
Mark-Up Table for Prices ... 196
Materials, Automobile, When Many Kinds Were Used First ... 175
Mazda Lamp Numbers ... 337
Molded Brake Lining, *Interchangeability* ... 272
Monthly Output, Combined Car and Truck ... 180
Motor Boat Registration by Cities ... 182
Motor Boat Registration Growth ... 182
Mufflers, *Interchangeability* ... 210

N

Net Profit Table ... 196
Numbers, Car Serial ... 310
Numbers, Mazda Lamp ... 337

O

Oil Capacity of Crankcase ... 339
Oil, Cost of Reclaiming by Fleets ... 338
Operation Cost of Car per Mile ... 190
Origin of Car Dealers ... 184
Orphan Car Parts Sources ... 342

P

Parts, Automobile, When Some Were Used First 175
Parts, Export of ... 197
Parts for Orphan Cars, Where to Buy ... 342
Parts, Sales and Service Possibilities ... 181
Persons per Motor Vehicle ... 178
Pilots, Aircraft, Count by States ... 195
Pin Sizes, Piston ... 314
Pins, Piston, *Interchangeability* ... 201
Piston Pin Bushing Sizes ... 314
Piston Pins, *Interchangeability* ... 201
Piston Pin Jobs, Estimated ... 181
Piston Ring Jobs, Estimated ... 181
Piston Ring Sizes ... 314
Pistons, *Interchangeability* ... 201
Piston Sizes ... 314
Population by States ... 178
Prices, Touring Models ... 310
Production, Cars Analyzed by Cylinders, 4 Years 180
Production, Cars by Body Type ... 181
Production, 16-Year Record ... 180
Production, Trucks Analyzed by Capacities, 4 Years ... 180

R

Reamer Sizes Needed ... 188
Recommended Tools and Equipment ... 185-187
Registration, 1929 Compared with 1928 ... 182
Registration, 1918 to 1929, by States ... 183
Registration, Foreign Countries ... 198
Registration, Motor Boat by Cities ... 182
Registration of Cars and Trucks by States ... 178
Registration, Trucks, by Vocation and Capacities 193
Repair Shops Analyzed by Jobs and Work Done 187
Repair Shops by States ... 179
Repair Shops, Equipment Needed for Flat Rate 186
Repair Shops, Equipment Needed for Different Sized ... 185
Repair Shops, How Equipped ... 187
Repair Shops, Number of ... 179
Repair Shops per Wholesaler ... 179
Replacement Parts Sizes ... 309
Rim Guide, Tire ... 189
Ring Sizes, Piston ... 314
Rivets, Brake, *Interchangeability* ... 280

S

Sale of Vehicles by States in 1929 ... 179
Sales, Automotive, Independent Compared to Chain ... 184

Page

Sales, Cars by Makes ... 174
Sales, Cars per Dealer ... 179
Sales, Foreign, of Vehicles ... 197
Sales, Truck, by Makes ... 181
Serial Numbers of Cars ... 310
Service Stations—See under Repair Shops; also under Shop Equipment
Shafts, Axle, *Interchangeability* ... 294
Shipping Data, to Foreign Countries ... 198
Shop Equipment in Use ... 187
Shop Equipment Needed for Different Sized Shops and in Various Departments ... 185
Shop Equipment Needed to Handle Flat-Rate Repair ... 186
Shop Equipment Recommended ... 187
Spring Jobs, Estimated ... 181
Starting Motor Drive, *Interchangeability* ... 254

T

Tables, Net Profit, Discount and Make-Up ... 196
Timing Jobs, Estimated ... 181
Tire Change-Over Data ... 189
Tire Dealers, Analysis by Other Functions Performed ... 190
Tire Guide Oversize Dual Tires ... 189
Tire Outlets, Analysis ... 190
Tires, Average Dealer Stock ... 190
Tires, Production, Chart 7 Years ... 190
Tools, Average per Shop per Job ... 187
Tools, Battery Service Recommended ... 185
Tools, Recommended per Shop ... 187
Tools, Wheel Aligning Recommended ... 185
Tools and Equipment Needed for Different Size Shops ... 185
Tools and Equipment Needed for Flat-Rate Repair ... 186
Towns, Number of, With Wholesalers ... 178
Trade Associations ... 425
Trade Names Arranged Alphabetically ... 420
Trade Outlets, Foreign Countries ... 198
Transmission and Transmission Parts, *Interchangeability* ... 289
Transmission Jobs, Estimated ... 181
Truck Design Trend ... 184
Truck Drivers, How Paid ... 194
Truck Fleets, by Size, by States ... 193
Truck Fleet Operating Cost ... 194
Truck Hauling Data ... 194
Truck Loads ... 191
Truck Operating Expense ... 194
Truck Production, Analyzed by Capacities, 4 Years ... 180
Truck Production, 16-Year Record ... 180
Truck Production and Sales, 1929 Analysis ... 181
Truck and Car Production by Months ... 180
Truck Registration by States ... 179
Truck Sales by Makes, 1929 ... 183
Truck Sales by States, 1929 ... 179
Trucks, Capacity by Commodities ... 191
Trucks, Rank in Use by Vocations ... 193
Trucks Registered by Vocations by Capacities ... 193

U

Universal Joint Assembly, *Interchangeability* ... 282

V

Valve Jobs, Estimated ... 181
Valves, *Interchangeability* ... 216
Valve Sizes, Engines ... 314
Vocations, Truck Registration by ... 193

W

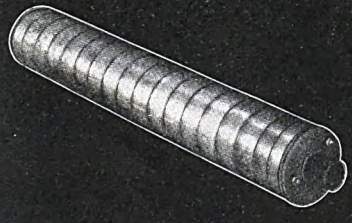
Washing and Polishing Department, Equipment Needed ... 185
Water Pump and Parts, *Interchangeability* ... 300
Weights of Different Commodities ... 191
Wholesalers, Aircraft, Count by States ... 195
Wholesalers, Count by States ... 179

Digitized by Google

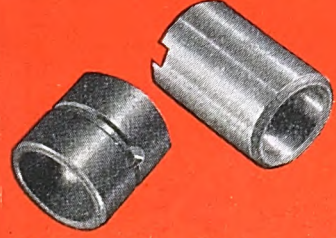
THE PERMITE -- DIAMOND LINE

Four Permite Piston types service over 4000 models.

Permalite Piston Rings specially designed for modern engines.



Permite - Diamond Mufflers guaranteed for life of car.



Permite-Diamond Bronze and Steel Bushings fit easier.

Quality of parts and dependability of service are the two standards on which Permite-Diamond Line has grown to its present high standing in the maintenance field.

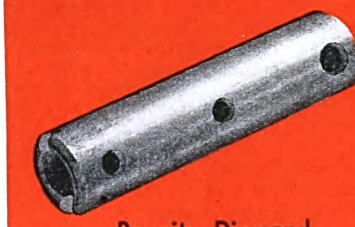
Permite-Diamond Products are standard equipment on models made by manufacturers of over one million cars. The same inbuilt quality makes them the logical choice for the repairman and fleet operator to use for replacements.

They service over 3500 models of cars and trucks. From the Permite-Diamond line you can secure the correct item that is interchangeable with that part needing replacement. The index on page 200 lists the interchangeable tables covering 475 models for which Permite-Diamond products are available. The line is equally complete for the truck and bus field.

Each product in the Permite-Diamond line maintains the standard of excellence for which the line is noted. It is a most desirable line for wholesalers to handle. It is sold by 600 wholesalers who are serviced by 5 warehouses and two large factories. Stock deliveries may be had from any of these distributing points.

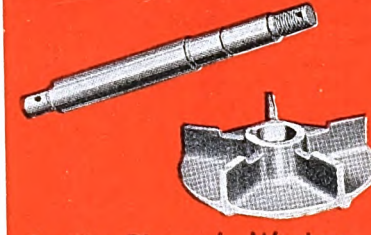
To facilitate ordering there is a catalog covering each item in the line. These catalogs are most complete and tell you the exact part to use for over 3500 models of cars, trucks and buses.

Permite-Diamond Steering Knuckle, Tie-rod and Spring Bolts.



Permite-Diamond Piston Pins wear better . . . fit better. All types.

Permite Diachrome and Permite "V" Steel Valves guaranteed against failure.



Permite-Diamond Water Pump Parts make a perfect assembled unit.

ALUMINUM INDUSTRIES, INC.

Manufacturers of Aluminum, Bronze & Steel Products

GENERAL OFFICES: CINCINNATI, OHIO

Digitized by Google

A WORD ABOUT the advertisements

In a guide of this nature, sales information by different companies is very necessary, therefore should be placed in positions easily found by the user.

Outside of Preferred Positions and the Interchangeable Tables themselves, advertisements appear on the pages immediately following. For convenience in use they are arranged, as far as practical after the color forms, so that those featuring the same or closely related products are together.

Essential buying information, such as branches, distributors, specifications, prices, etc., when furnished in the advertisement, is indicated in detail under the advertiser's name in the Buyer's Guide starting page 343. Some advertisers, in order to save the time of those using the Interchangeable Tables, have arranged to place their sales information in the Interchangeable Tables on pages 203, 205, 207, 211, 223, 225, 227, 229, 241, 243, 246, 247, 249, 251, 263, 265 and 273.

Digitized by Google

ADVERTISERS' INDEX

● *Five years or more advertising without missing an issue.*
●● *Ten years or more advertising without missing an issue.*
●●● *Fifteen years or more advertising without missing an issue.*
●●●● *Twenty years or more advertising without missing an issue.*

	Page
Accurate Parts Mfg. Co.	131
● Acorn Mfg. Co.	142
Advance Packing & Supply Co.	96
Aetna Metal Products Co.	124
Almetal Universal Joint Co.	104
Aluminum Industries, Inc.	10
American Chain Co.	40
●● American Chemical Paint Co.	171
● American Hammered Piston Ring Co.	2
● American Metal Hose Co.	132
● Ames Co., B. C.	162
Armature Co.	24
●●● Armstrong Bros. Tool Co.	159
●● Armstrong Cork Co.	100
Atlas Copper & Brass Mfg. Co.	157
● Auburn Automobile Co.	34
Auto Door Chek Specialty Co.	77
Automatic Seat Cover Corp.	48
Automotive Manufacturers, Inc.,	243 and Opposite Inside Back Cover
Automotives, Inc.	47
● Auto Specialties Mfg. Co.	55
Auto-Vehicle Parts Co.	117
Bean Mfg. Co., John	21
● Bellevue Mfg. Co.	70
● Bendix Aviation Corp.	Front Cover
Bendix Brake Co. (Div. of Bendix Aviation Corp.)	Front Cover
Bendix-Cowdrey Brake Tester, Inc. (Div of Bendix Aviation Corp.)	Front Cover
Bendix Service Corp. (Div. of Bendix Aviation Corp.)	Front Cover
Bendix-Stromberg Carburetor Co. (Div. of Bendix Aviation Corp.)	Front Cover
Bendix-Westinghouse Automotive Air Brake Co. (Div. of Bendix Aviation Corp.)	Front Cover
●● Biltmore Mfg. Co.	47
● Blackhawk Mfg. Co.	163
●● Bosch Magneto Corp., American	92, 93
● Bosch Magneto Co., Robert	91
Bragg-Kliesrath Corp.	Inside Back Cover
(Div. of Bendix Aviation Corp.)	Front Cover
● Brewer-Titchener Corp.	155
Brookins Mfg. Co.	156
●●● Brown-Lipe-Chapin Co.	103
Brown & Sharpe Mfg. Co.	162
Brunner Mfg. Co.	143
Buell Mfg. Co.	56
● Buick Motor Co.	32
Bumpers, Inc.	89
Burd Piston Ring Co.	116
●● Burgess-Dall Corp.	203
Burton Auto Spring Corp.	131
Bussmann Mfg. Co.	51
●● C & C Sales Corp.	84
C & H Mfg. Co.	54
● Casco Products Corp.	43
● Cedar Rapids Engineering Co.	152
● Chain Products Co.	41
● Champion Pneumatic Machinery Co.	142
● Champion Spark Plug Co.	Back Cover
Chicago Coil Spring Co.	130
Chicago Rivet & Machine Co.	121
●● Chicago Tubing & Braiding Co.	133
Christie-Couse Corp.	150
● Chrysler Sales Corp.	32
Clawson & Bals, Inc.	125
Cleveland Cap Screw Co.	122
● Cleveland Chain & Mfg. Co.	38
Cleveland Twist Drill Co.	158
Cleveland Worm & Gear Co.	104
● Clover Mfg. Co.	172
Cold Steam Corp.	4
Columbian Vise & Mfg. Co.	167
● Columbus-McKinnon Chain Corp.	152
● Comfort Printing Specialty Co.	134
Connecticut Telephone & Electric Corp.	251
● Consumers Paper Co.	132
Continental-Diamond Fibre Co.	8
Continental Motors Corp.	25
●● Continental Piston Ring Co.	115
Continental Rubber Works	134
Continental Tire Corp.	78
● Corcoran Mfg. Co.	126
Council Engineering Co.	153
Crescent Automotive Cable Co.	90
●●● Curtis Pneumatic Machinery Co.	141
●● Dall Motor Parts Co.	203
DeLuxe Products Corp.	110
● Dill Mfg. Co.	73
Dole Valve Co.	63
Dorman Star Washer Co.	124
● Durkee-Atwood Co.	86
● Durwyllan Co.	265
Eastman Kodak Co.	49
● Eclipse Machine Co.	127
(Div. of Bendix Aviation Corp.)	Front Cover
Electric Sprayit Co.	144
Elliott Addressing Machine Co.	136
Emerol Mfg. Co.	6
Emsco Asbestos Co.	110
Es-M-Co Auto Products Corp.	119
Evansville Tool Works	160
●●● Fafnir Bearing Co.	223
Fairmount Tool & Forging Co.	170
Federal Bearings Co.	229
● Federal-Mogul Corp.	207
●● Felt Products Mfg. Co.	97, 98
● Ferodo & Asbestos, Inc.	106
Fitzgerald Mfg. Co.	96
● Flower City Specialty Co.	36, 37
●● Foreman, W. D.	79
● Fostoria Pressed Steel Corp.	101
● Francisco Auto Heater Co.	52
Franklin Die Casting Corp.	56
●● Gates Rubber Co.	86
Gatke, Thomas L.	108
General Electric Co.	147
●● Globe Machine & Stamping Co.	67
Gray Co.	27
Guaranteed Parts Co.	246, 247
Hackett Products Co.	55
Hammett Mfg. Co.	164
Hampden Automotive Products, Inc.	48
● Handy Governor Corp.	52
●● Hansen Mfg. Co.	144
Hebert Mfg. Co.	114
Hercules Products Co.	166
Hexcel Radiator Co.	126
● Hilab Products Co.	85
●● Hobart Brothers	140
Holfast Rubber Co.	85
●● Houde Engineering Corp.	68
Hubco Mfg. Co.	138
●● Hudson Motor Car Co.	18
Hydraulic Brake Co. (Div. of Bendix Aviation Corp.)	Front Cover
Hygrade Products Co.	90
Ideal Clamp Mfg. Co.	63
●● Imperial Brass Mfg. Co.	170
Imported Motors, Inc.	34
●●● Improved Gauge Mfg. Co.	150
International Metal Hose Co.	135
Jambor Tool & Stamping Co.	118
Jeavons Co.	50
●● Jefferson Electric Co.	46
Jenkins Vulcan Spring Co.	128
Johns-Manville	109
●● Johnson Bronze Co.	84

Digitized by Google

ADVERTISERS' INDEX

	Page
●K-D Lamp Co.	64
●K-E-M Mfg. Co.	249
●Kales Stamping Co.	61
●Keasbey & Mattison Co.	263
Keep Klean Cover Co.	44
●●●Kellogg Mfg. Co.	2nd page fr. Inside Back Cover
●●Kennedy Car Liner & Bag Co.	62
Keystone Sales Corp.	166
●●Killark Electric Mfg. Co.	51
●King-Seeley Corp.	64
Kinney Quick-Dim Co.	66
Kozak, Inc.	76
●●●Laminated Shim Co.	205
Lincoln Brass Works	105
Link-Belt Co.	94
Lion Chain Co.	42
Liquid Veneer Corp.	49
●Logan Gear Co.	102
Loock & Co., R. J.	59
●●McQuay-Norris Mfg. Co.	113
●Manhattan Insulated Wire Co.	Inside Front Cover
Manufacturer's Belt Hook Co.	120
Manufacturers Surplus Outlet Co.	87
●Marvel Carbureter Co.	95
Mesker & Co., Geo. L.	101
Millersburg Reamer & Tool Co.	159
Monarch Insulated Wire Corp.	91
●Monmouth Products Co.	19
●●Morse Chain Co.	94
Morse Twist Drill & Machine Co.	158
Morton Mfg. Co.	164
●Moto Meter Gauge & Equipment Corp.	65
Motor-Bed Mfg. Co.	78
Motor Suit Mfg. Co.	87
●Motor Wheel Corp.	139
●●Multibestos Co.	108
Muther Mfg. Co.	154
●National Steel Products Co.	35
National Umbrella Frame Co.	125
●●National Used Car Market Report, Inc.	62
●●●●New Departure Mfg. Co.	81
New Haven Clock Co.	Opp. Title Page
Niehoff & Co., C. E.	46
Nil Melior, Inc.	66
●Norma-Hoffmann Bearings Corp.	225
Ohio Hammered Piston Ring Co.	113
●●Olds Motor Works	16
Opco Co.	60
P & D Mfg. Co.	30
●Packard Electric Co.	93
Parker Co., Chas.	167
Peck Spring Co.	72
Peck, Stow & Wilcox Co.	160
●Pep Mfg. Co.	172
Persons-Majestic Mfg. Co.	57
●Phosphor Bronze Smelting Co.,	Opp. Inside Front Cover
Pickard & Co., H. M.	69
Pier Equipment Mfg. Co.	146
●●Pines Winterfront Co.	71
●●●Piston Ring Co.	14
Porter, Inc., H. K.	161
●●Powell Muffler Co.	112
Power-Dyne Mfg. Corp.	75
Pratt Chuck Co.	112
Puritan Soap Co.	74
Quincy Compressor Co.	140
●RBF Ball Bearing Co.	82
●Rajah Co.	92
●Raybestos Div. of Raybestos-Manhattan, Inc.	279
Red Head Mfg. Co.	60
Reliance Specialty Co.	53
Remington-Keystone Mfg. Co.	80
Renu Hetepruf Co.	29
Reo Motor Car Co.	33
●Rogers Products Co.	156
Roller Bearing Co. of America	231
Rollway Bearing Co.	241
Rowland Inc., Wm. & Harvey	129
Russell, Burdsall & Ward Bolt & Nut Co.	123
Russell Mfg. Co.	107
●SKF Industries, Inc.	227
●St. Louis Rubber Cement Co.	171
St. Louis Spring Co.	129
St. Louis Tag Co.	88
St. Louis Tool & Mfg. Co.	153
●St. Pierre Chain Corp.	38
Schoedinger, F. O.	53
●Schrader's Son, A.	72
Schwarze Electric Co.	57
●Service Spring Co.	130
●●Shaler Co.	165
Shelton Tubular Rivet Co.	121
Shepard & Moore, Inc.	65
Sherwin-Williams Co.	31
Signal Mfg. Co.	58
Silver King Hydraulic Jack Co.	154
●Simmons Mfg. Co.	118
Simplex Time Recorder Co.	161
South Bend Lathe Works	165
Southern Cotton Oil Co.	75
●Sparks-Withington Co.	58
Spencer Mfg. Co.	80
●Springfield Mfg. Co.	102
Sterling Clock Co.	45
●●Stewart Motor Corp.	22
●Storm Mfg. Co.	151
●Sunnen Products Co.	23
Superior Piston Ring Co.	114
Tacony File & Hardware Co.	148
●●●Thermoid Rubber Co.	15
●Timken Roller Bearing Service & Sales Co.	83
●Toledo Steel Products Co.	136
●●Tonneau Shield Co.	70
●Torrington Co.	82
Tot Industries of Detroit	54
Trainor National Spring Co.	128
●●Trico Products Corp.	74
●Tripp Products, Inc.	68
Tropic-Aire, Inc.	26
●Truth Tool Co.	163
●●●Tubular Rivet & Stud Co.	120
Union Carbide & Carbon Corp.	168, 169
Unique Printed Products Co.	173
United-Carr Fastener Corp.	116
United Screw & Bolt Corp.	122
U. S. Air Compressor Co.	145
●United States Asbestos Div. of Raybestos-Manhattan, Inc.	106
U. S. Axle Co.	79
●United States Chain & Forging Co.	39
●United States Electrical Tool Co.	17
United States Rubber Co. (Detroit, Mich.)	111
United States Rubber Co., Fibre Products Dept. (New York, N. Y.)	111
Utility-Strate Mfg. Co.	157
Van Norman Machine Tool Co.	149
●●Veeder-Root, Inc.	138
Vellumoid Co.	100
●●Victor Mfg. & Gasket Co.	99
Victor Rubber Co.	50
Warner Gear Co.	28
Warshawsky & Co.	119
●Watts Morehouse Mfg. Corp.	69
●Weatherproof Body Corp.	35
●●Wel-Ever Piston Ring Co.	115
Westinghouse Electric & Mfg. Co.	146
●●Whitaker Mfg. Co.	148
Whitney Mfg. Co.	211
●Wiese & Co., Wm.	44
Wilcox-Rich Corp.	137
Willys-Overland, Inc.	20
●Wittek Mfg. Co.	88
●●●Wolverine Empire Refining Co.	76
●Woodworth Specialties Co.	42

Digitized by Google

QUALITY
BRAND PISTON RINGS

QUALITY BRAND leadership has always been maintained through meeting and solving real piston ring problems.

QUALITY BRAND piston rings are as faultless as unexcelled engineering experience and manufacturing facilities can make them, and sales and distribution policies meet every expectation and need of sellers and users the world over.

QUALITY BRAND piston rings are always accurate, quick seating and long lived. They provide maximum efficiency an unusual length of time.

There is a QUALITY BRAND ring to meet every piston ring problem including the famous DRAINOIL (both single and double slot), STA-TITE with inner spring (both oil and compression) and QUALITY compression.

More QUALITY BRAND rings are used for standard equipment than any other make.

QUALITY COMPRESSION

DRAINOIL SINGLE SLOT

DOUBLE SLOT DRAINOIL

STA-TITE COMPRESSION

STA-TITE OIL

The Piston Ring Company

Muskegon, Michigan

Digitized by Google

Some of the cars that you can service with this assortment:

AUBURN · AUTOCAR · BUICK · CHEVROLET
CHRYSLER · CLIPPER · CORD · CUNNINGHAM
DE SOTO · · DODGE · · DURANT · · ELCAR
ESSEX · · · · FALCON-KNIGHT · · · · FARGO
FEDERAL · · FLINT · · FORD · · FRANKLIN
GARDNER · · · G-M-C · · · GRAHAM BROS.
GRAHAM-PAIGE · HUDSON · HUPMOBILE
INT. HARVESTER TRUCK · · · · · · JORDAN
KISSEL KAR · · LA SALLE · · LOCOMOBILE
MARMON · · · · MARQUETTE · · · · NASH
OAKLAND · · OLDSMOBILE · · OVERLAND
PACKARD · · · · · PACKET · · · · · PEERLESS
PLYMOUTH · PONTIAC · RELIANCE · REO
RUXTON · SANFORD · SELDEN · SERVICE
STAR · · · STEARNS-KNIGHT · · · STEWART
STUDEBAKER · STUTZ · TRAFFIC · TWIN CITY
VELIE · · · VIKING · · · WILLS ST. CLAIRE
WILLYS-KNIGHT · · · YELLOW CAB

90% of cars with internal brakes can be serviced with this small assortment - - -

THERE is a type of Thermoid specially recommended for best results on each model and make of car.

Yet this "90% Assortment" gives you a stock of what you will need for at least ninety per cent of the cars using internal brakes.

How's that for simplifying your "stock-on-hand" problem and reducing your investment?

Ask the nearest Thermoid jobber for the Thermoid "90% Assortment." Or mail us the coupon.

Thermoid Brake Lining Service

THERMOID RUBBER COMPANY
Factories and Main Offices - TRENTON, N. J.

Brake Lining · Clutch Rings · Transmission Lining · Universal Joint Discs · Radiator Hose · Mechanical Rubber Goods

CARE WILL SAVE YOUR CAR

Thermoid
"F·M·L" (FLEXIBLE MOULDED LINING) and "C·A·L" "HYDRAULIC COMPRESSED" and "INTERWOVEN"
BRAKE LININGS
FOR SHORT STOPS AND LONG SERVICE

THERMOID RUBBER COMPANY
TRENTON, N. J.

Send us information about the Thermoid 90% Assortment.

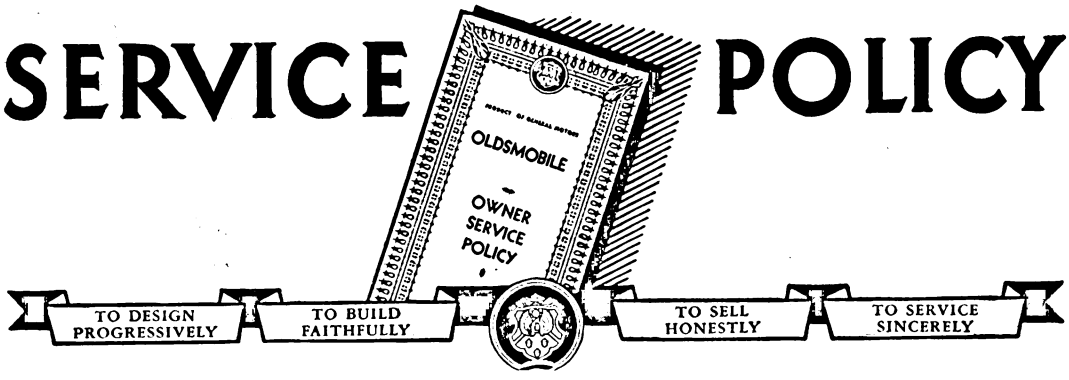
NAME _____

ADDRESS _____

G

Digitized by Google

Only
ABSOLUTE CONFIDENCE IN THIS CAR COULD INSPIRE SUCH A SERVICE POLICY



The sincere desire of Olds Motor Works to give every owner not only a good, dependable car, but lasting satisfaction with its performance, led Oldsmobile, nearly two years ago, to establish a new and broader type of service policy, based on fairness and friendliness to the owner.

Every owner receives this Oldsmobile Service Policy when his car is delivered to him. Briefly, this policy assures the owner seven definite advantages:

1 That his car has been given a thorough inspection prior to delivery and that it comes to him in excellent condition.

2 That after 500 miles he is entitled to a free inspection and adjustment, consisting of 17 standard operations, all listed in the policy.

3 That at 1500 miles, or within 90 days after purchase, he is entitled to a second complete inspection and adjustment, exactly the same as the 500-mile inspection.

4 That when during the period of warranty it is necessary to replace parts, due to faulty workmanship or defective material, *both parts and labor will be furnished without charge,* as provided in the policy. This covers all original equipment except tires.

5 That wherever he travels, in the United States, he will receive the benefits of the Oldsmobile parts and labor warranty upon presentation of his Owner Identification Card to any authorized Oldsmobile dealer.

6 That, as an Oldsmobile owner, he may purchase genuine parts from any authorized Oldsmobile dealer at the standard published list prices. There is no excess charge such as freight, handling, etc.

7 That whenever he, as the owner of an Oldsmobile car, authorizes regular maintenance work, that work will be performed by any of more than two thousand Oldsmobile dealers throughout the country at the standardized flat-rate prices established by Olds Motor Works and published in the book entitled "Owners' Maintenance Prices" which is always available at any Oldsmobile dealership.

This service policy, inspired by absolute confidence in the quality and workmanship of its product, is Olds Motor Works' assurance of lasting satisfaction to Oldsmobile owners everywhere.

OLDSMOBILE

PRODUCT OF GENERAL MOTORS

Digitized by Google

PRICED AS LOW AS $24

ELECTRICALLY DRIVEN DRILLS-GRINDERS-BUFFERS

THE STANDARD SINCE 1897 OF QUALITY

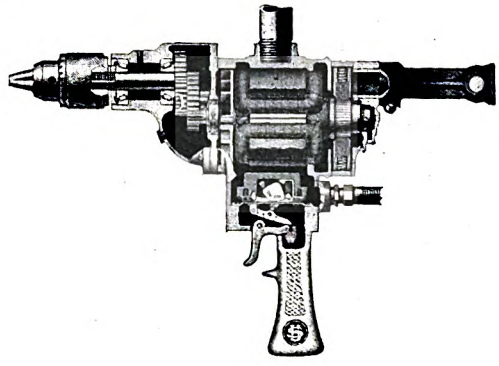
HOW TO MAKE YOUR SHOP MAKE MONEY

UNITED STATES ELECTRICAL TOOL CO.

make money from maintenance in 1930—our booklet tells how. Catalog shows tools—Both books Free.

Write today for a catalog showing the complete U. S. line of electrically-driven tools. There is a style and size of drill, grinder, or buffer for every type of work. Portable units, special appliances for converting portable units into bench or pedestal units, and all sizes of permanently mounted bench or pedestal units are fully described.

SECTIONAL VIEW SHOWING DETAIL OF CONSTRUCTION OF "U.S." DRILLS.



1. Three-Jaw Screw Back Chuck—easily removed.
2. Remove the conveniently located dust-proof Screw Plug for oiling.
3. Special Alloy Bearings on the Slow Speed Spindle.
4. Remove the conveniently located Dust-proof Plug to refill gear case with grease.
5. Chrome Nickel Steel Gears hardened, run in grease.
6. Generous Grease Compartment.
7. Armature mounted on ball bearings.
8. Air Outlet.
9. Special design fan insures generous supply of cool air.
10. Anchor Screws, in addition to ribs, hold Motor in place.
11. Powerful Universal Motor.
12. Switch Operating Trigger conveniently located in handle.
13. Patented Quick Make and Quick Break Double Pole Switch. When switch is in Off position Motor is free from current.
14. Generous Ducts provide ample circulation of air.
15. Special U. S. Cable Retainer and Protector prevents strain on switch connections.
16. Cable Protector Spring does not permit short kink bends in cable.
17. Brushes easily replaced by unscrewing Slotted Nut, eliminates removal of commutator end.
18. Screws hold Brush Holders in place.
19. Air Intake.
20. Detachable Combination Breast Plate and Spade Handle screwed on Threaded Stud.
21. Ribbed Housing holds Motor in place.
22. Detachable Side Handle permits close corner drilling.
23. Cylindrical frame provides maximum strength.
24. Generous Oil Reservoir.
25. Spindle Offset for close corner drilling.
26. Ball Thrust Bearing in Dust-Proof Retainer.

The above are just 26 of the many good reasons why "U. S." Drills are Superior.

This is the book that tells how to make your shop make money. Ask for your copy today.

Carbon Removing Brushes, Rotary Wire Brushes, Portable Screw Drivers, Portable Electric Wrenches, Bench Grinding Machines, Grinding Wheels, Stands for Portable Electric Drills, Electric Valve Refacers

CINCINNATI, OHIO, 2483 W. Sixth St., *and Branches in* — Atlanta — Boston — Chicago — Cleveland — Dallas — Denver — Detroit — London — Los Angeles — Minneapolis — New York — Philadelphia — Pittsburgh — St. Louis — San Francisco — Seattle — Syracuse

EXPORT REPRESENTATIVES: Westinghouse International Co., 150 Broadway, New York

CANADIAN DIVISION: Maple Leaf Electric Tools, Ltd., Toronto

Digitized by Google

HUDSON-ESSEX

Owner-Management Permits Quality-Price Sensations

Owner-management enables Hudson-Essex to give you outstanding advantages in quality and price. Hudson-Essex cars carry nothing in their prices to pay interest on bonds or dividends on preferred stock. The Company is managed and its policies controlled by the same group of men who founded it twenty-two years ago. Its department heads and principal distributors are its controlling owners. Their independence is backed by unusually large resources in capital and plant facilities. It enables Hudson-Essex to lead in design and engineering quality. It permits economies in manufacture and distribution that bring exceptional quality direct to the public at distinct price advantages.

For details of *Franchise* and available territory write or wire . .

HUDSON MOTOR CAR COMPANY
DETROIT • MICHIGAN

Digitized by Google

MONMOUTH PRODUCTS

REBABBITTED ROD EXCHANGE
A CONVENIENT SERVICE

Monmouth Connecting Rods are reconditioned and centrifugally rebabbitted by the process standard with car manufacturers. This scientific process assures hairline accuracy and a perfect bond between babbitt and steel in Monmouth Con Rods. Walls have uniform babbitt thickness. In addition the metal structure is more dense and homogeneous than by any other method.

Bearing surfaces and piston pin bushings of Monmouth Rods are diamond bored in a single operation. This method assures exact center distances, with bushings and babbitted bearings in exact parallel.

Monmouth centrifugally Rebabbitted and Diamond Bored Connecting Rods are now available, in exchange for burned out rods at distributing warehouses throughout the country. A convenient service that saves you time, labor and money. Complete stocks carried for prompt service.

MONMOUTH CLUTCH PLATES

Monmouth Replacement Clutch Plates are made to factory specification assuring 100% quality and accuracy. We have replacement clutch plates to fit more than 100 different types of passenger cars and trucks, including replacement plates for Borg and Beck, Long and Rockford Clutches.

With prompt service from our 50 warehouses, the jobber needs only a small stock of clutch plates to service all popular makes of cars and trucks. A handsome profit from this large, steady turnover.

MONMOUTH REPLACEMENT BOLTS

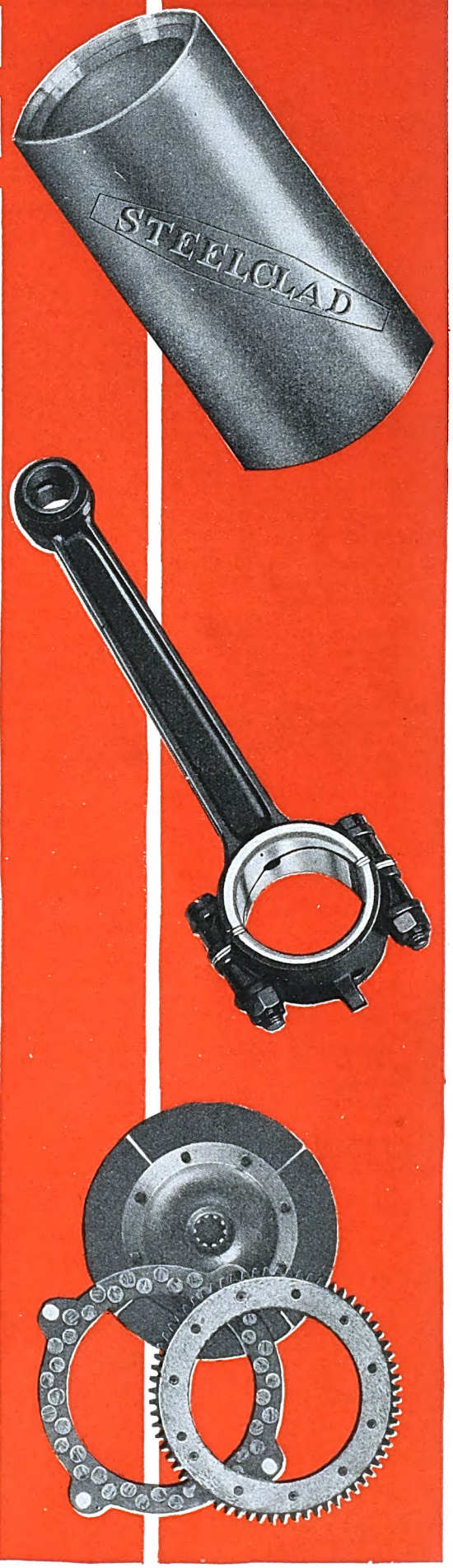
Our Warehouses carry in stock a full line of Monmouth Steering Knuckle, Tie Rod and Spring Shackle Bolts, with Bushings.

STEELCLAD BUSHINGS

Steelclad Bushings are made of an outer jacket of steel, for extra strength, and a bronze lining or bearing surface. The two metals are permanently bonded together by a new process developed in our own laboratories.

The bronze used in Steelclads is an extremely hard, long-wearing bronze—hard, yet easy to ream, when necessary, with a straight reamer.

Steelclads are accurately burnished to specified size, eliminating the necessity for reaming in most cases. Reaming only necessary when part to be rebushed is out of alignment. Rebush with Steelclad. They will save you many hours of labor.



MONMOUTH PRODUCTS COMPANY
882 *East* 72nd St. ✓ Cleveland, O.

Digitized by Google

• THESE DISTRIBUTORS CARRY GENUINE WILLYS-OVERLAND PARTS

CITY	NAME OF DISTRIBUTOR	STREET ADDRESS
Albany, N. Y.	Albany Garage Company	28 Howard St.
Atlanta, Ga.	W. A. Christ & Co.	17-25 North Ave., N. E.
Baltimore, Md.	Mid-City Sales Company	27 S. Charles St.
Bangor, Me.	Wentworth Motor Corp.,	40 Post Office Square
Beatrice, Nebr.	Spiegel Automobile Co.	620-22 Court St.
Billings, Mont.	Mulvaney Motor Company,	2605 First Ave., N.
Binghamton, N. Y.	Overland Binghamton Co.	233-235 Water St.
Boise, Idaho	Boise Overland Co.	309 N. Tenth St.
Boston, Mass.	Boston Whippet Knight Corp.,	533 Commonwealth Ave.
Buffalo, N. Y.	Overland Knight Co., Inc.,	368 Massachusetts Ave.
Cedar Rapids, Ia.	Schierbrock-Kelly, Inc.	605 Second Ave.
Charlotte, N. C.	Dorris-Green Motor Co., Inc.	211-213 N. College St.
Chattanooga, Tenn.	Smith Bond Motor Co.	4704 Rossville Blvd.
Chicago, Ill.	Thomas J. Hay, Inc.	2521 S. Michigan Ave.
Cincinnati, Ohio	The Pfaff Motor Car Co.	1002 Gilbert Ave.
Cleveland, Ohio	The North Ohio Motor Co.	5005 Euclid Ave.
Dallas, Texas	Gough Motor Company	826 S. Ervay St.
Davenport, Ia.	Lytle Motor Company	218-22 Ripley St.
Decatur, Ill.	W. C. Starr, Inc.	232-240 S. Main St.
Denver, Colo.	E. J. Johnson, Inc.	945 Broadway
Des Moines, Ia.	Duffield Hinton, Inc.	11th and Walnut Sts.
Detroit, Mich.	A. D. Geissler Co.	2965 Woodward Ave.
Dodge City, Kans.	Carl Fay Motor Company.	100 E. Military Ave.
Duluth, Minn.	Kent Motors, Inc.	210 E. Superior St.
Easton, Pa.	Clyde F. Sandt	3040 South 10th St.
Eau Claire, Wis.	Drake Auto Co.	1131 W. Grand Ave.
Elmira, N. Y.	Southern Tier Motor Co., Inc.,	Church and State Sts.
El Paso, Texas	Hinton Motors, Inc.	601 Montana St.
Ensley, Ala.	Hyatt Phillips Auto Co.	2200 Ave. D
Evansville, Ind.	Bennighof-Nolan Co.	719 S. Fifth St.
Fargo, N. D.	Lahr Motor Sales Company,	315 First Ave., N.
Fort Worth, Texas.	Knight Motors, Inc.	5th and Taylor
Grand Island, Nebr.	Brandes Motor Company.	102 E. 2nd St.
Green Bay, Wisc.	Cliff Wall Motor Sales	1285 Main St.
Harrisburg, Pa.	Clyde F. Sandt Company.	90-92 S. Cameron St.
Hartford, Conn.	Elmer Automobile Company.	348 Trumbull St.
Hastings, Nebr.	Hunt Motor Company	508 W. 3rd St.
Honolulu, Hawaii	Graystone Corporation, Ltd.,	505 S. Beretania St.
Houghton, Mich.	Hansen Motor Sales	63-67 Shelden St.
Houston, Texas	Rice Motors, Inc.	Milan and Leland
Huntington, W. Va.	Bruce Perry Motor Co.	608-10 Fourth Ave.
Hutchinson, Kans.	Hodge-Foster Motor Co.	100 Sherman St.
Indianapolis, Ind.	The I. Boyd Huffman Motor Co.	
Jackson, Miss.	Robinson Brothers.	Cor. Amite and McQuade
Jacksonville, Fla.	Wm. A. Estaver Co.	Julia and Monroe Sts.
Kansas City, Mo.	Hemphill Motor Company.	2501 Grand Ave.
Knoxville, Tenn.	Whippet Knight Sales Co., Inc.,	413 W. Depot St.
La Crosse, Wisc.	Tri State Motors, Inc.	505 So. 4th St.
Lidgerwood, N. D.	Lidgerwood Auto & Mach. Co.	
Lincoln, Nebr.	King Motors, Inc.	1608 "O" St.
Los Angeles, Calif.	Davies Motor Co.	
Louisville, Ky.	Bacon-Pence, Inc.	909 E. Broadway
Madison, Wisc.	Whippet Knight Sales Co.	437 W. Gilman St.
Manchester, N. H.	Knight Motor Company	313 Chestnut St.
Mankato, Minn.	Brandes-Wing Motor Co.	
Mason City, Ia.	Hathorn Auto Company.	109-11 First St., S. E.
Memphis, Tenn.	Echoff Trezevant Motor Co., Inc.	217-27 Union St.
Miami, Fla.	Biscayne Motor Corp.,	1214 N. E. Second Ave.
Milwaukee, Wisc.	Arndorfer & Kuhl, Inc.	840 Teutonic Ave.
Minneapolis, Minn.	Halverson Motors, Inc.	600 9th Street
New Orleans, La.	Knight Motors Co., Inc.	719-21 Baronne St.
New York, N. Y.	Willys-Overland, Inc.	1631 Broadway
Norfolk, Va.	Arthur W. Depue, Inc.	700-2 West 21st St.
N. Platte, Nebr.	Schierbrock Motor Co.	
Oklahoma City, Okla.	King-Godfrey, Inc.	Broadway at 5th St.
Omaha, Nebr.	Brandes-Campbell Motor Co.	2523-25 Farnam St.
Peoria, Ill.	Kaemmerling Motor Co.	427 Franklin St.
Philadelphia, Pa.	Herbert Brothers	Broad and Master Sts.
Pittsburgh, Pa.	Rea-Seagert Company	5800 Baum Blvd.
Portland, Ore.	Tarola Motor Car Co.	11th and Burnside Sts.
Portland, Me.	Portland Motor Co.	2224 Bedford St.
Providence, R. I.	Knight Motors Co., of R. I.,	553 Elmwood Ave.
Rapid City, S. D.	Cordes Motor Company	707-9 Main St.
Reading, Pa.	O. W. Lindgren	525 Franklin St.
Reno, Nevada	Short Gibson, Inc.	112 No. Center St.
Rockford, Ill.	Midway Motor Sales, Inc.	125 S. Third St.
Salina, Kans.	Marshall Motor Company.	125-131 N. 7th St.
Salt Lake City, Utah.	Packard Motors, Inc.	
San Angelo, Texas.	Allen Motor Sales Co.	20 E. Twohig Ave.
San Antonio, Texas.	Murray-Winerich Motor Co.,	Broadway at 9th
San Diego, Calif.	Davies Motors, Inc.	1437-53 Broadway
San Francisco, Calif.	Bell and Boyd	
Seattle, Wash.	Transport Corp.	1519-31 Twelfth Ave.
Spokane, Wash.	Transport Corp.	Sprague and Madison Sts.
Springfield, Mass.	Arthur C. Sauers	138 Memorial Ave.
Sioux City, Iowa	Ray H. Darling	5th and Jones St.
Sioux Falls, S. D.	Kehrer Motor Co.	224-26 N. Phillips Ave.
Stevens Point, Wisc.	G. A. Gullikson Company.	301-3 Strongs Ave.
St. Joseph, Mo.	Calkins Motor Co.	9th and Frederick
St. Louis, Mo.	E. J. Johnson, Inc.	Locust and 23rd St.
Syracuse, N. Y.	Rusterholtz & Russell, Inc.	817 Genesee St.
Texarkana, Ark.	Overland Texarkana Co.,	8th at State Line Ave.
Toledo, Ohio	Willys-Overland, Inc.	14th and Adams
Tulsa, Okla.	Charles R. Eckes, Inc.	4th and Frankfort
Waterloo, Iowa	Schierbrock-Waterloo Co.	Franklin and 6th
Wheeling, W. Va.	Auto Sales Co., Inc.	23 14th St.
Wichita, Kans.	R. D. McKay Motor Company,	235 S. Lawrence St.
Wichita Falls, Texas.	Boone-Kemp, Inc.	814 Travis St.
Youngstown, Ohio.	The Henderson Overland Co.,	Boardman and Walnut Sts.
Zanesville, Ohio	The F. Wilking Sons Co.	40-42 N. 5th St.

WILLYS-OVERLAND, INC.

TOLEDO, OHIO

WILLYS-OVERLAND, LTD., TORONTO, CANADA

Digitized by Google

Not Guesswork -

But Facts Founded Upon Sound Engineering

Illustrated Catalogs Will Be Mailed Upon Request!

Bean Edler System of Auto Laundry

The complete Bean Edler System includes the following Bean units: Car Washers, Vacuum Cleaner, Hot Water Heater, Air Compressor, Blower, Warm Air Heater, and Chain Conveyor.

Our engineering department co-operates in every detail of planning, installation of equipment, and training of personnel.

A real business opportunity to invest in a highly profitable and proven branch of automotive service. Write for complete information.

WHEN your jobber recommends the Bean Brake Tester, Drum Lathe, Car Washer—any one item or even the complete Bean line, it is not just guesswork on his part. He knows that all Bean equipment is *really* Super-Service machinery. Ordinary equipment does not —can not—meet the rigid demands of modern speed and economy!

Every item in the Bean line is engineered to do its job simply and correctly the first time. Each unit has one or more outstanding features, unobtainable elsewhere—features which cut time and cost to a minimum, and assure the highest degree of efficiency. These features make Bean equipment the *one* line actually suited to modern service work!

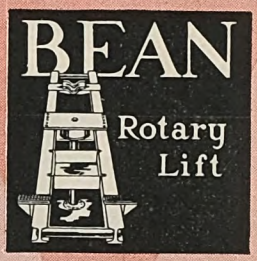
The jobber selected to sell Bean equipment is given the line only after he himself has investigated it and is thoroughly convinced that it is the one line of real Super-Service machinery!

So when your jobber says, "I recommend Bean equipment," you can place confidence in him—he knows how it is engineered, how it is built, and that long life, satisfactory service, and profits are guaranteed!

JOHN BEAN MANUFACTURING CO.
18 Hosmer St., Lansing, Mich. - - 118 W. Julian St., San Jose, Cal.

Takes any wheel (drums and flywheels). Complete with all tools; does all necessary jobs quickly and accurately at the first set-up.

Low cost combination or separate relining machines. Positive, speedy, hole locators, and special patented time saving features.



An easily installed low-cost lift with greatest working freedom and service-selling attractions.

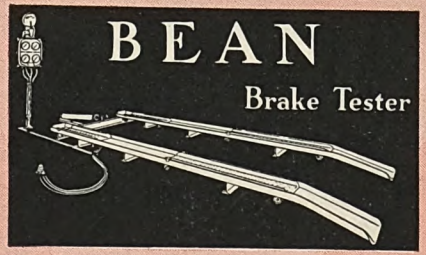
Heavy duty, over-size, Timken bearing unit. Extra pressure and volume at long-lived slow speeds. One to four guns.

Highest efficiency and finest engineering and construction cut pumping time or power costs 20%.

Another use for your regular air supply, an especially efficient vacuum cleaner at less cost.

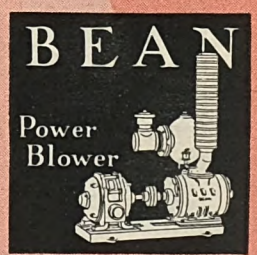
BEAN FUTURIZED AUTOMOTIVE EQUIPMENT

A Blow Gun that delivers from five to ten times the air without taking more air from the storage tank.



First-time accurate gauge readings under actual equivalent of any weather conditions. Easily installed and operated. Bean also makes a special tester for trucks and buses.

Positive displacement unit designed for hard service and constant operation. Furnished complete with hose and special upholstery tool.

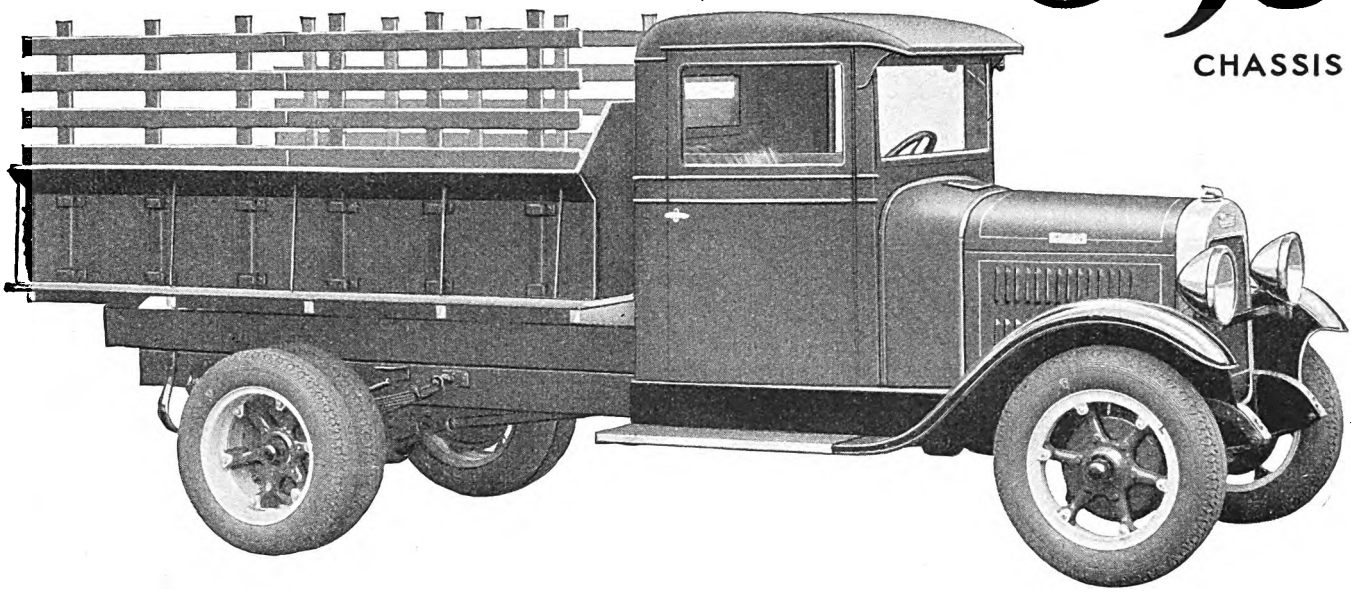


A direct-drive, positive-pressure, rotary blower. Proven by years of use. Operates two hose lines. Indispensable to auto laundries.

Digitized by Google

Stewart 1½ Ton Truck $895

CHASSIS



A Remarkable Truck at a Remarkable Price

Another Stewart triumph! A new 1½ ton truck embodying a long list of mechanical features formerly found only on the finest trucks selling at a price that smashes all precedent. This new Stewart has a 7½ inch frame, 11 inch clutch, 4 speed transmission, dual-balloon tires and helper springs.

The same quality that has long marked Stewarts as "America's Greatest Truck Value" is found in this model. From radiator to tail light an honestly rated truck built by exclusive truck makers entirely of truck parts.

Truck users whose demands include speed, flexibility and long life at low operating costs may now enjoy Stewart quality at a hitherto unheard of price for 1½ ton capacity.

The new Stewart 1½ tonner is not a one-year truck. Stewart owners know by experience that the average life of a Stewart is 5 years or more. Ask the Stewart owners in your community the results they are getting. Complete detailed specifications will be sent upon request.

MODELS
BEVEL AXLE

1 ton 4 Cylinder -	$ 695
1 ton 6 Cylinder -	795
1½ ton 4 Cylinder -	895
1½ ton 6 Cylinder -	995
1½ ton 6 Cylinder -	1195
1¾ ton 6 Cylinder -	1495
2 ton 6 Cylinder -	1695
2½ ton 6 Cylinder -	1990

Stewart
MOTOR TRUCKS

STEWART MOTOR CORPORATION
BUFFALO, N. Y.

Export Branch: 1 Broadway (Dept. 16)
NEW YORK CITY, U.S.A.

Cables: Stewartruk New York.
Codes: Acme, Bentley.

MODELS
WORM AXLE

2 ton 6 Cylinder -	$2290
*2½ ton 6 Cylinder -	2690
*3 ton 6 Cylinder -	3290
*3½ ton 6 Cylinder -	3690
*5 ton 6 Cylinder -	4990
*6-7 ton 6 Cylinder -	5700

*Double Gear Reduction Axle Optional Equipment.

Stewart Trucks have won—By costing less to run

Digitized by Google

NOW—A Complete Cylinder Grinding Job in ONE HOUR ...with the famous

SUNNEN CYLINDER GRINDER

Sunnen Adjustable Valve Lifter

List Price
$2.50

Over 250,000 in use! Faster, easier to use. Jaws adjustable to any size spring. Lock will positively hold at any height. Jaws raise practically parallel. Will not wedge on valve stem. No extra parts to change or lose. Jaws thin at ends—easy to remove pin. No ratchet to wear out or slip. Like all other SUNNEN products, the Adjustable Valve Lifter is guaranteed to satisfy.

Continental Special Valve Lifter Set

For the new type motor where valve assembly is almost completely hidden. Makes these hard jobs easy. Prevents dropping split lock and makes it easy to replace. Especially designed for Dodge Six, Reo, Graham-Paige, Peerless and Continental Motors. Fully guaranteed.

List Price, Complete
$5.00

Spring Compressor

Very necessary in replacing broken springs. Saves thirty minutes to one hour on valve grinding jobs by making springs easy to replace.

List Price, Complete with Six Clips
$3.80

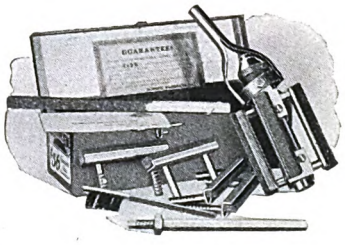
THINK of it! In one hour you can take ten thousandths out of a six-cylinder block—and finish up the job complete! You know what that means in *extra profits* on your flat rate! Speed, however, is not the only SUNNEN feature. This amazing tool cuts straight and true as a die, with a guaranteed accuracy of half a thousandth; the adjustment is fast, easy, positive; runs dry—no oil or muck; leaves a satin-finish cylinder wall free from embedded abrasive; any half-inch drill pulls it; auto-type universal joint makes it easy to grind out a block in the chassis—even in the last cylinder next to the cowl.

GUARANTEED TO SATISFY!

Every statement we make in our advertising is a performance guarantee! Get a SUNNEN from your jobber—if it doesn't do everything we claim for it or fails to satisfy you in every way, we'll refund every cent you paid for it! You can't lose with a SUNNEN!

SUNNEN OUTFIT COMPLETE $56

The picture to the right shows the SUNNEN complete with roughing and finishing stones; written guarantee; carbon cleaning brush, etc., in handy metal box. Handles any job from $2\frac{11}{16}$" to $4\frac{1}{4}$" with one set of stones.



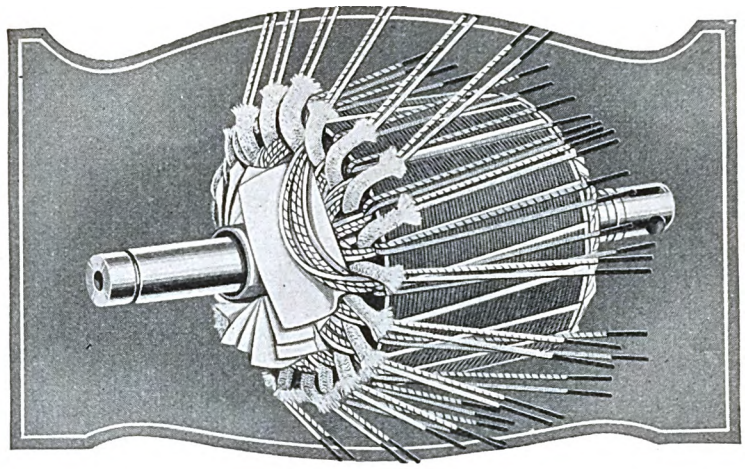
Special stones for big motors—up to 6-inch **$4.50**

Manufactured by
SUNNEN PRODUCTS CO., *St. Louis, Mo.*
and sold by the better automotive jobbers

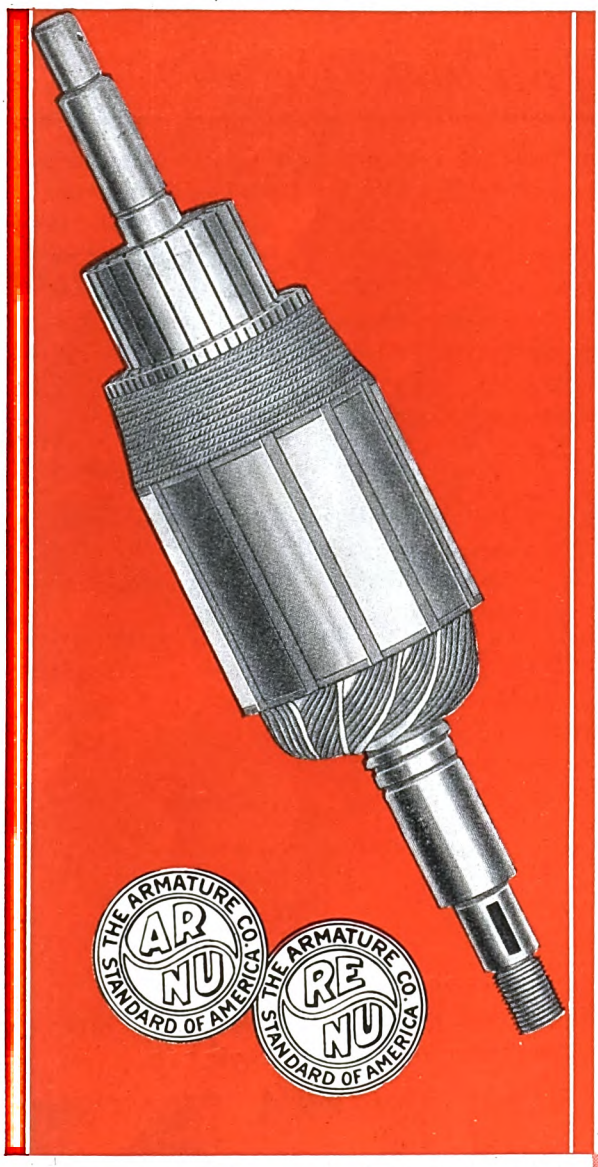
SUNNEN
TIME SAVING TOOLS

Digitized by Google

AR-NU RE-NU



THE FINEST REPLACEMENT ARMATURES



RE-NU ARMATURES are completely re-manufactured armatures. We can guarantee their high quality because we know they are made of the best materials, handled by expert workmen, built in strict adherence to close tolerances, rigidly inspected and produced by the latest production methods and newest equipment. Re-Nu Armatures *aim to be the best* re-built replacement armature . . . and thousands of servicemen have found that they are!

We furnish you with a Re-Nu armature in exchange for an old armature of the same type and number regardless of the condition of the old armature, at our exchange list price, less your regular discount.

AR-NU ARMATURES are entirely new armatures, built with the highest possible degree of skill and workmanship, and are intended to be used on the more expensive cars and on cars which are as yet practically new. Ar-Nu Armatures are guaranteed for one year after installation.

Distributors handling Ar-Nu and Re-Nu Armatures are located in many cities. You can buy or exchange armatures out of their stocks. Write us for the name of your nearest distributor, we'll furnish complete details as well as up-to-the-minute Armature Lists.

THE ARMATURE COMPANY

FACTORY: 7500 STANTON AVE., CLEVELAND, OHIO

FOREIGN AGENTS: EXPORT AGENCIES CORP., 116 BROAD ST., NEW YORK CITY

Digitized by Google

THIS IS AN AGE FOR SUCCESSFUL PERFORMANCE A.G.C.A. OF SPECIALIZATION

SPECIFY CONTINENTAL

NEVER BEFORE has the value of specialized effort and centralized responsibility been so apparent. Never has authoritative experience been so greatly in demand. Never have the facilities, resources and experience, which are Continental's reward for 29 years of specialization, had a more practical value to manufacturers in every field where gasoline power is employed.

DEPENDABLE POWER CONTINENTAL MOTORS Power of a Nation AMERICA'S STANDARD FOR EVERY PURPOSE

Offices: Detroit, Mich., U. S. A. *Factories:* Detroit & Muskegon
Largest Exclusive Gasoline Motor Manufacturer in the World

Continental Motors Corporation

Digitized by Google

TROPIC-AIRE

REG. U. S. PAT. OFF.

The original fan-equipped hot water automobile heater

Car owners gladly pay the price of Tropic-Aire

What better proof of public popularity and dealer prosperity could you have than the fact that car owners cheerfully pay more for Tropic-Aire than for other heaters?

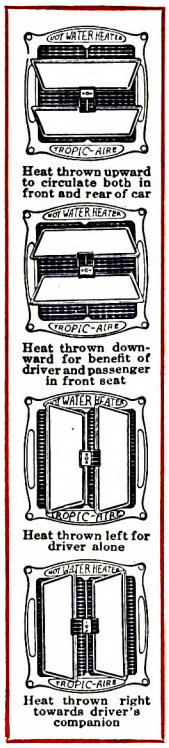
In this vigorous demand for a quality heater lies your opportunity for bolstering up 1930 earnings.

You get a Generous Margin of Profit

Tropic-Aire makes enough profit on each sale to pay you for your time, to absorb its share of store overhead and still leave a neat balance to be banked.

Think what it means to handle a heater that sells at a good price, that the public wants because it warms the air rapidly, drives it by electric fan in a constant stream towards the occupants of the car and directs that stream just where it is needed. $9.62 to $13.13 profit on every sale!

Tropic-Aire with its flood of *clean, warm air, free from fumes*, is the one heater on which big profits are easy and certain.



Heat thrown upward to circulate both in front and rear of car

Heat thrown downward for benefit of driver and passenger in front seat

Heat thrown left for driver alone

Heat thrown right towards driver's companion

Sales are Booming

Growth of Tropic-Aire sales is phenomenal. Starting about two years ago in a field already highly competitive, Tropic-Aire's increase in *number of sales* and dollars of *profit for dealers* has set a record that has never been equalled.

Why not line up with a proved success? Get your share of this business *NOW*. Ask your distributor's salesman about Tropic-Aire and get set for Fall demand.

No Competition with Original Equipment

Tropic-Aire is *not* original equipment on motor cars—Tropic-Aire profits are for dealers only. Here's a protected field well worth cultivating.

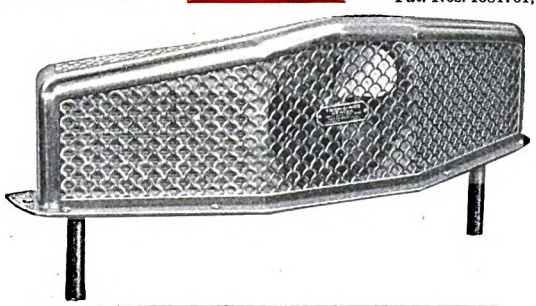
TROPIC-AIRE, Inc.
71 Eleventh Ave. N.E., Minneapolis, Minn.
In Canada:
14 Breadalbane Street, Toronto
52 Adelaide Street, Winnipeg

Pat. Nos. 1581761, 1668491, RE17131. Others pending

Rear Seat Heater

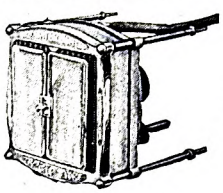
Especially designed for limousines, towncars, taxicabs and the larger makes of sedans and coaches.

Beautifully designed and chromium plated—fits into the most luxuriously appointed cars.

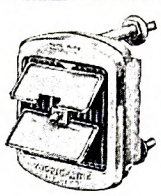


Write for full information

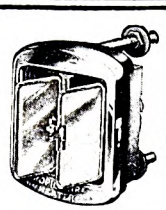
prices—profit—and name of nearest distributor.



SENIOR
Recommended for large sedans and coaches

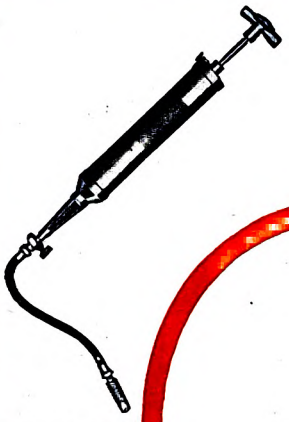


JUNIOR
For coupes, roadsters and all medium-sized cars



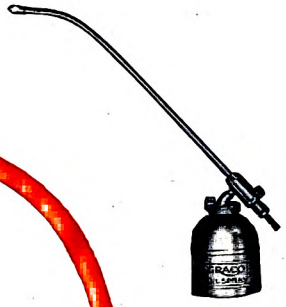
FORD
Designed specially for the Model "A" Ford

Digitized by Google



GRACO PUSH GUN COMBINATION — A combination hand gun capable of servicing either Zerk or Alemite equipped cars.

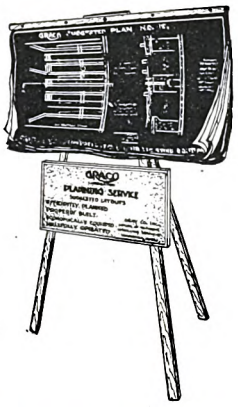
GRACO Lubricators



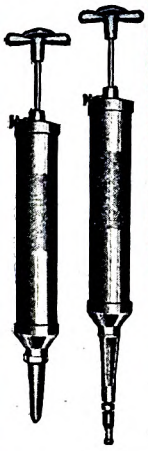
GRACO OIL SPRAY— Self-contained oil supply tank and spray nozzle control, adjustable from a fine stream to a very effective spray.

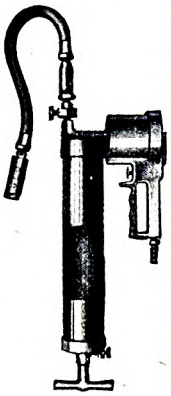
Free
Planning Service

From the most efficient and successful lubricating departments actually operating under present day conditions, Graco Engineers have compiled a number of suggested plans, covering practically every type of lubricating department. These plans are flexible so that they can be adapted to your particular service requirements. When necessary, we are prepared to design special plans to meet unforeseen conditions.



Graco Planning Service is available without charge or obligation. If you plan to build or remodel, take advantage of this valuable service. Write for complete information.





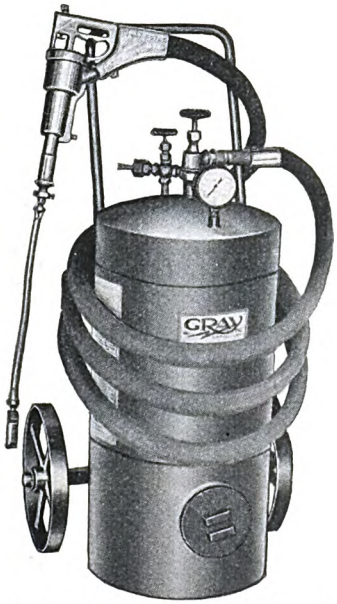
GRACO LUBRICATORS - INSURE - POSITIVE - LUBRICATION

GRAY COMPANY, Inc.

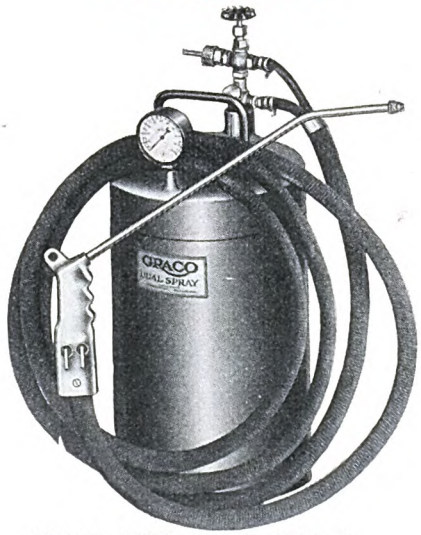
MINNEAPOLIS, MINNESOTA

At left, GRACO UNIVERSAL PUSH GUN—For dispensing special lubricants in volume under relatively low pressure.
At right, GRACO PUSH GUN—Designed especially for use on Zerk equipped cars.

GRACO AIR JUNIOR—A high pressure, single shot air gun, with grease tube of sufficient capacity to lubricate two average cars, without refilling.



GRACO PISTOL GUN—A high pressure, single shot air gun, simple in construction and exceptionally efficient and economical in operation.

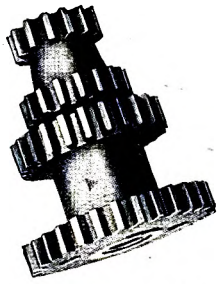


GRACO DUAL SPRAY GUN—A handle controlled combination unit, delivering either a spray or rifle stream, of penetrating oil.

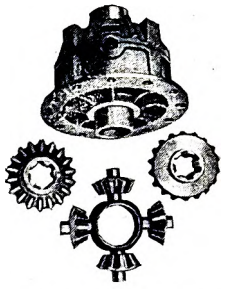
GRACO METER GUN—For differential and transmission work only, where accurate measurement of the lubricant is absolutely necessary.

Digitized by Google

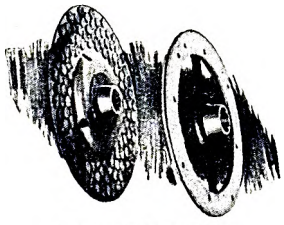
RING GEARS and PINIONS



TRANSMISSION GEARS



DIFFERENTIAL CASES and PARTS



CLUTCH DISCS

FLYWHEEL STARTER GEARS

THE WARNER LINE OF QUALITY

EVERY Warner Ring Gear and Pinion, Transmission Gear, Clutch Disc, Flywheel Starter Gear and Differential Case and part is guaranteed to be of the highest quality, to fit perfectly and to give quiet, dependable service.

And back of that guarantee stands more than a quarter of a century of sound engineering and manufacturing leadership that enables that extra quality to be put into the Warner Line without increasing its cost.

BACK UP YOUR SERVICE WITH WARNER GEARS. You can get them everywhere, for more than 800 jobbers are supplied with these parts from

BORG-WARNER SERVICE PARTS COMPANY

Warehouse Stocks in

New York Chicago Oakland Minneapolis
Kansas City Dallas Atlanta
And Direct From the Factory

WARNER GEAR COMPANY

Service Parts Division

Factory and General Offices: Muncie, Indiana, U. S. A.

TRADE MARK REGISTERED WARNER GEAR CO MUNCIE IND. U.S.A.

Established 1901

Digitized by Google

Make Old Motors NEW

The RE-NU HETE-PRUF Piston Ring Line provides two ways to renew the pep and power of old motors and literally make new motors out of old. The condition of the cylinders determines the type of ring to be used. Study the distinctive features of the RE-NU HETE-PRUF Line. A ring for every job and every job a power demonstration that sells repeat business.

HETE-PRUF — Re-nu

HEAT TREATED PISTON RINGS — *INNER RINGS AND PISTON RINGS*

If cylinders are in true and round condition, or you are honing the block to make them perfect, install Hete-Pruf Piston Rings and secure these exclusive advantages:

Perfectly correct tension against cylinders.

Uniform degree of softness.

All hard spots and casting strains removed.

Resist heat in any motor. The one piston ring that is sure to be free from warping and loss of tension.

Hete-Pruf is the only piston ring heat-treated before final precision operations. Holds accuracy both in tension and dimensions no matter how hot the motor.

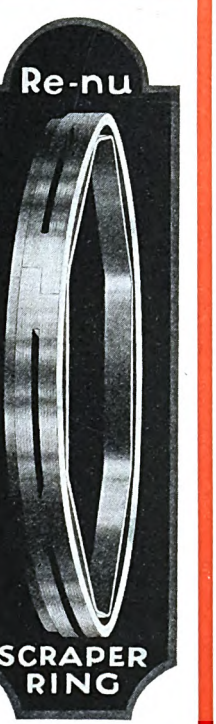
If cylinders are out-of-round use Re-nu Piston Rings to save regrinding cylinders.

Re-nu Piston Rings give you a special soft iron "dead" piston ring which is given the correct tension by the famous Re-nu inner ring—the 8-point inner ring.

Re-nu Piston Rings give you these advantages: 1. Tension evenly distributed, cradling the piston and preventing piston slap. 2. Tension maintained for long life by the special heat-resisting Swedish clock spring steel used in the inner ring. 3. Perfect compression seal given by conformation of ring to cylinder wall.

Re-nu Piston Rings give a more perfect fit, standard or over-size. Made for all cars.

WRITE FOR SPECIFICATION CHART



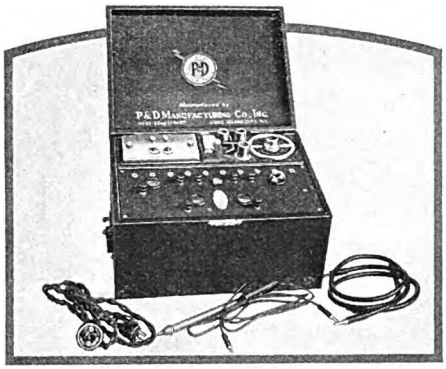
RENU HETEPRUF COMPANY

HOLLAND, MICHIGAN

Export Department: 330 S. Wells St., Chicago, Ill.

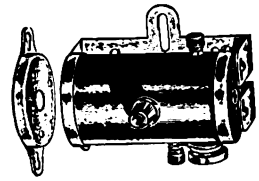
Digitized by Google

P & D Electrical Test Equipment

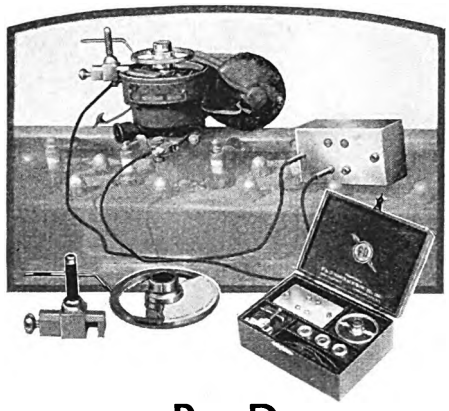


P & D IGNITION TESTING OUTFIT

Any serviceman can operate this complete electrical test equipment, profitably. Efficient, accurate and moderately priced.
The P & D Ignition Tester includes the P & D Recording & Synchronizing equipment in the same unit. Tests spark plugs, distributor caps and rotors, ignition and lighting cables. Open circuits or short circuits may be tested or continuity tests made either with light or buzzer method. Soldered connections may also be made with this equipment.

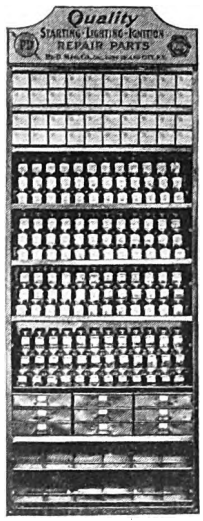


P & D Universal Coil



P & D SYNCHRONIZING AND RECORDING EQUIPMENT

An effective device for accurately synchronizing any ignition system. It synchronizes point opening of one set of contacts with relation to the other set or sets (where more than one pair of contacts are used).
With the P & D Recording disc it makes an accurate and permanent record before and after point adjustment takes place. This unit also checks faulty distributors, cams. Indicates camshaft alignment. Times contact points. Synchronizes dual ignition. Tests continuity.



P & D General Assortment DA-200. A stock that fully meets the service requirements for 95% of all cars.

Genuine Tungsten Pointed Contacts—Assortment PA-300

Gear Assortment GA-801

THE P & D LINE IS A COMPLETE LINE OF S. L. I. PARTS INCLUDING

Genuine Tungsten-Pointed Contacts, Distributor Caps, Gears, Springs, Brushes, Rotors, Cut-Outs, Starter Switches, Starter Parts, Universal Coils, Magneto and Distributor Wrenches, Condensers, Battery Protector.

P & D MANUFACTURING CO., LONG ISLAND CITY, N. Y.
CANADIAN BRANCH: 2406 ST. CHARLES ST., MONTREAL, P. Q.

Digitized by Google

Sherwin-Williams Insures Uniformity!

Opex Automotive Lacquer Finishes

Nothing can create as much trouble in your finishing plant as lacquers which do not run uniform in characteristics of application or in quality of the completed finish. Lack of uniformity between gallon or drum or between successive shipments is difficult to forestall unless the buyer looks beyond the sample when placing his order.

Sherwin-Williams has long realized that uniformity begins far back of the mixing plant. It begins with raw materials! As the world's largest manufacturers of protective coatings, Sherwin-Williams has control of, and in most cases owns, its sources of supply. The uniformity of S-W Opex Automotive Finishes is further protected by huge reserves of raw materials at each of the great S-W plants. Sherwin-Williams production executives are thus never placed in the position of having to make non-uniform raw materials "do" in order to meet production schedules.

This uniformity makes constant the easy workability of S-W Opex Automotive Finishes—at the lowest possible labor cost. Write us today for complete information. There is an Opex Distributor nearby to give you quick, efficient service. The Sherwin-Williams Co., Dept. 733, Cleveland, Ohio.

S-W AERO FINISHES

A complete line of fabric and metal finishes of great flexibility and durability, perfected by extensive research and experiment. Write for complete details.

SHERWIN-WILLIAMS

PAINTS - VARNISHES - LACQUERS - ENAMELS

World's Largest Manufacturers of Protective Coatings

Digitized by Google

EIGHT GREAT FEATURES PLACE BUICK DEALERS IN THE LEAD

WITH

The phenomenal success of Buick's four great Eights in four price ranges—with the resultant benefits to all Buick Dealers—can be directly traced to the outstanding features of the new Buick Eight itself.

Here are a few important advantages Buick Dealers enjoy with The Eight as Buick Builds It . . . advantages not combined in any other automobile:

1. Masterly New Valve-in-Head Straight Eight Engines.
2. New Engine-Oil Temperature Regulator.
3. New Non-Clash Syncro-Mesh Transmission.
4. New Dual Carburetion.
5. New Insulated Bodies by Fisher.
6. New Air Intake Silencer.
7. New Low Prices (one series of Straight Eights listing even below the Buick Six).
8. Built by Buick—straight eight manufacturer *exclusively*—and winner of more than twice as many buyers as any other maker of fine cars.

There may be a Buick franchise open in your community—a sales opportunity with The Eight as Buick Builds It. Write—or wire—today for further facts.

BUICK MOTOR COMPANY, FLINT, MICHIGAN
Division of General Motors Corporation

Canadian Factories: McLaughlin-Buick, Oshawa, Ontario

WHEN BETTER AUTOMOBILES ARE BUILT, BUICK WILL BUILD THEM

CHRYSLER DEALERS ARE

IN SALES

Registrations show that the total cars sold by Chrysler dealers—Chrysler Sixes, the new Chrysler Eights and those low-priced Plymouth cars delivered by Chrysler dealers—won THIRD PLACE in the industry for total sales volume in the months of June and July.

In other words, the Chrysler dealer organization sold more new automobiles in those two months than any other dealer group in the industry, except the dealer groups handling the two lowest-priced cars of largest production.

This great showing made by Chrysler dealers is the best possible evidence of the public's faith in Chrysler and Chrysler products—and it is this faith that makes the Chrysler franchise so valuable from the viewpoint of the dealer.

Good dealers everywhere are turning to Chrysler in ever-increasing numbers—1163 since January 1st—eager to handle a line in which the public has such confidence—a line that has the marked advantage of spanning all price classes between $535 to $2895.

There may be an opening in your community right now. Address all inquiries to the Chrysler Sales Corporation, 12200 East Jefferson Avenue, Detroit, Michigan.

CHRYSLER
CHRYSLER MOTORS PRODUCT

Digitized by Google

ONLY THE FIRST STEP

High class merchandise, aggressive marketing assistance, and a business policy that has endured through the years, compose Reo's offer to dealers who seek business improvement. There are no side show tactics, no banner waving, in Reo's efforts to attract dealers.

The new Reo-Royale and Reo Flying Cloud passenger cars are being acclaimed as world leaders in design and mechanical excellence, but great as this line is, it is only the first step in Reo's new Program of Progress.

If your business prospects have taken on a drab tone, look to your own merchandise for the answer. Perhaps it is Reo that you need. Suppose we sit down and talk it over.

REO MOTOR CAR COMPANY

LANSING, MICHIGAN

Digitized by Google

AUBURN
Straight Eights

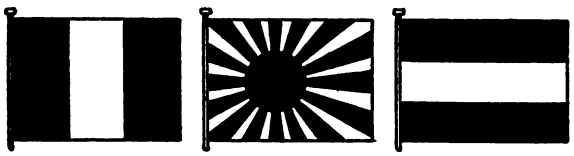
FACTS
That Deserve Careful Consideration by Dealers

IN 1924 there were six manufacturers of Straight Eight automobiles. Auburn was one of them. Duesenberg was another. Two used Lycoming motors. Auburn has had six years' experience ahead of others, not only in perfecting the Straight Eight type of motor itself, but also in improving the entire car to meet the demands of this type of engine. This is what enables Auburn to offer today the greatest Straight Eight Value on the market for the least cost, a fact that can be proved by comparison; and an outstanding reason for the notable success of Auburn dealers.

CORD
FRONT-DRIVE

The public is learning for itself that Front Drive offers exclusive motoring advantages, not possible with any other kind of car. Just as we predicted more than five years ago that Straight Eights would sweep the market, which prediction has come true, we now predict that within five years, Front-Drive will be generally adopted by the industry. As in the past, prestige and profits will go to the dealer who is the first to have what the public wants.

AUBURN AUTOMOBILE COMPANY
Auburn, Indiana



IMPORTED MOTORS
INCORPORATED

Sales and Service on all Foreign Cars

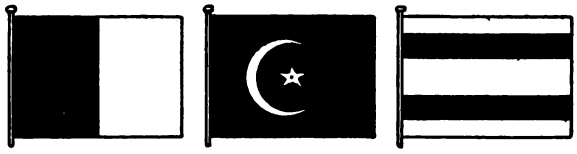
1. Automobile Dealers and Distributors do not have to hesitate about trading in Foreign Cars on their regular models. We can give you an appraisal on your trade-in by phone, wire or letter and even arrange to sell the car here in New York City if the re-sale possibilities are limited in your territory.

2. For the occasional buyer who wants a Foreign Car we can furnish you a new or used car with stock or custom body.

3. Our experts can repair and recondition any make of Foreign Car. Or we can furnish you the necessary parts to do the work in your own shop.

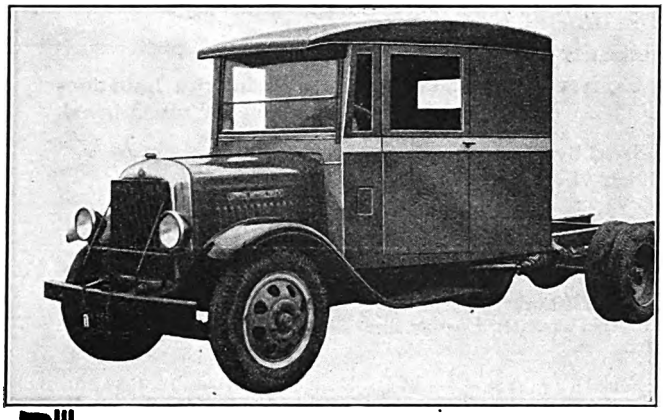
Parts books and technical information available on all makes of Foreign Cars. Send for our complete list of exceptional offerings of the finest European cars, including Rolls Royce, Mercedes, Hispano-Suiza, Bugatti, Isotta, Renault, Bentley, etc. Telephones ENDICOTT—3360 and 3361.

IMPORTED MOTORS, INC.
37-43 West 65th Street
NEW YORK CITY



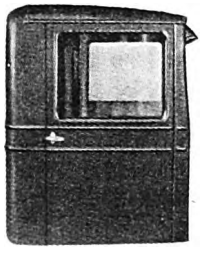
Digitized by Google

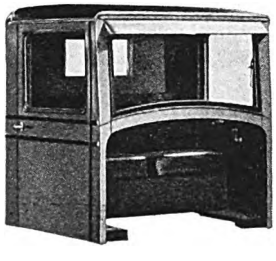
Weatherproof
TRANSPORTATION



Write for descriptive literature on the new Weatherproof Sleeper Truck Cab. A new development for long distance hauling. Seating capacity for three men. Air-bound cushions of graduated cone type. Lazyback and Seat covered with Fobafimi Pads and highest quality artificial leather obtainable.

Sleeping berth is long enough to accommodate the average man full length. Spring constructed cushion, well padded 20" wide, 80" long. Pillow constructed in cushion. Cab can be supplied with two sleeping bunks, one located above the other. Two-piece, full ventilating steel frame Windshield. Plate glass rear window.



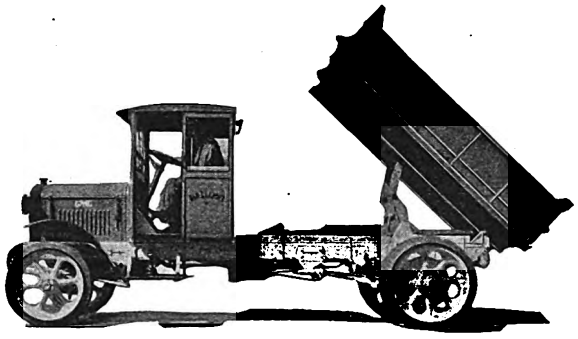


Manufacturers of Passenger Car Body Wood Parts and Metal Stampings, also Truck Cabs and Commercial Bodies.

Weatherproof Truck Cabs are of heavy wood construction, entirely covered with 20 gauge Autobody sheet steel. Our latest type, ball cornered design—optional 1 or 2-piece windshield, clear vision. Doors are held in place with air-tight continuous hinge, running full length—also equipped with heavy duty spring door catch.

Write for details and folders describing the new Weatherproof Ultra Cab—*the last word in cab construction and design.*

THE WEATHERPROOF BODY CORPORATION
CORUNNA MICHIGAN



NATIONAL *steel* Dumping Bodies

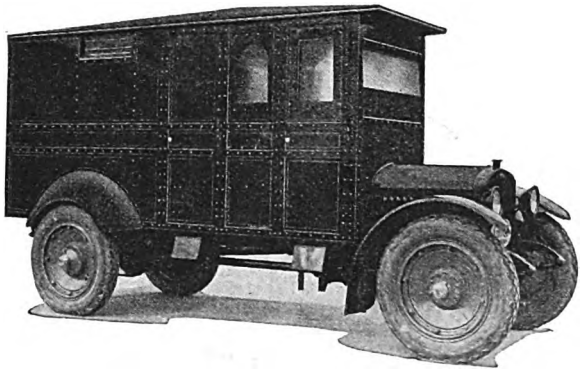
Are available in every model and type to fit correctly every size of chassis you sell.

Your customer receives an unconditional guarantee for one year. Should any part of a National body or hoist prove defective it will be replaced without question.

The same guarantee goes with all the automotive equipment that we manufacture including

Armored Car Bodies

Descriptive bulletins and prices are already waiting for your inquiry.



National Steel Products Co.
1611 Crystal Ave. Kansas City, Mo.

Digitized by Google

Self-Closing Monkey Link

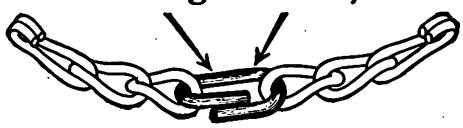
Zee How Ezy

Registered in U. S. Pat. Office
There is no Substitute

Self-Closing Monkey Links

Please remember that the Monkey Link is the Original Self-Closing Link, with years of Extensive Advertising and Popular Approval back of it. Furthermore the Monkey Link is protected by Patent Rights broadly sustained by two Federal Courts of Appeals.

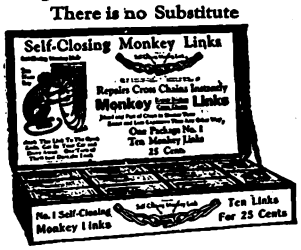
This is the
Self-Closing Monkey Link



Pat. Dec. 12, 1922

Why take chances with inferior Imitations when you can just as well sell the Original.

Pat. on "Monkey Link" Validated by U. S. Appellate Court, 3rd Circuit, 1926
Pat. on "Monkey Link" Validated by U. S. Appellate Court, 7th Circuit, 1928



Counter Display Box

Six Counter Display Boxes of any one size to the case.

No. 1 MONKEY LINKS are packed 10 links to the package, retail 25c. Twenty-two Packages in a Counter Display Box. List price $5.50 the display box.

No. 2 MONKEY LINKS are packed 10 Links to the package, retail 50c. Eleven Packages to the Counter Display Box. List Price $5.50 the display box.

No. 3 MONKEY LINKS are packed 5 Links to the package, retail 50c. Eleven packages to the Counter Display Box. List price $5.50 the display box.

Pat. Dec. 12, 1922
Samples and discounts will be promptly forwarded.

No. 1, No. 2, No. 3 Monkey Links all the same List. Price $5.50 each Display Box.

MONKLOTH

TRADE MARK

Dry Cleans
Automobiles, Furniture Etc.

50c. each

COUNTER DISPLAY BOX

Packed 1 Cloth in a Glassine Envelope which is placed in an attractive Display Envelope 1 Dozen Envelopes in this Counter Display Box.

Dealer's Price

1 Package of 2 dozen list $12.00 less 40%, Cost $7.20. Dealer's Profit $4.80.
Packed 1 gross to the case.
Single dozen, 33⅓% off List Price.

MONKLOTH is a very heavy Grey Flannel Chemically Treated Size 24 x 27 inches

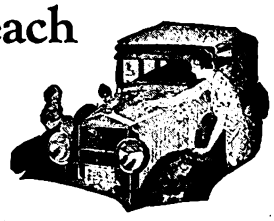
Elcaro Mystic Cloth 25 cents each

Trade Mark

Dry Cleans
Automobiles, Furniture Etc.

Dealer's Price

1 Package of 3 dozen List $9.00 less 40%, Cost $5.40. Dealer's Profit $3. 60.
Single dozen 33⅓ off List Price.



Why let Dirt and Dust Hide the Beauty of your Car, Furniture, etc.

Elcaro Mystic Cloth is packed 1 Cloth in a Glassine Envelope which is placed in an attractive two color Display Envelope.

Packed 1 dozen in a Counter Display Box, 3 dozen to the Package and 4 Packages or 1 gross to the Case.

For Samples and Prices write our nearest jobber. See opposite page.

Flower City Specialty Co., 250 Mill St., Rochester, N. Y., U. S. A.

Digitized by Google

WE SELL THROUGH JOBBERS ONLY

Write our nearest Jobber to you for Samples and Prices

On Self-Closing Monkey Links

On MONKLOTH TRADE MARK Chemically treated Flannel For Dry Cleaning

On Elcaro Mystic Cloth

ARIZONA
Phoenix: Motor Supply Co.

CALIFORNIA
San Francisco: Colyear Motor Sales Co.

COLORADO
Denver: Auto Equipment Co.
Foster Auto Supply Co.
Hendrie & Bolthoff Mfg. & Supply Co.
B. K. Sweeney Electrical Co.
Pueblo: Motor Accessory Co.

CONNECTICUT
Bridgeport: Collins & Leary.
The Post & Lester Co. of Bridgeport, Inc.
Hartford: Magic Auto Supply Co.
Nutmeg Auto Supply Co.
The Post & Lester Co. of Hartford, Inc.
New Britain: The Post & Lester Co. of New Britain, Inc.
L. H. Weiner
New Haven: The Bronson & Townsend Co.
Hessell & Hoppen Co.
Horton-Gallo-Creamer Co.
C. S. Merwick Co.
Louis H. Weiner
New London: The Post & Lester Co. of New London, Inc.
Stamford: H. S. Helander Auto Supply Co.

DELAWARE
Wilmington: Taylor Auto Supply Co.

IDAHO
Boise: Bertram Motor Supply Co.
Colyear Motor Sales Co.
Oakley & Sons
Salt Lake Hdw. Co.
Idaho Falls: Auto Parts Co.
Lewiston: Erb Hardware Co.
Pocatello: Inter-Mountain Elec. Co.
Mackenzie Auto Equip.
Salt Lake Hdw. Co.

ILLINOIS
Bloomington: Cummings and Emerson.
Chicago: The Beckley-Ralston Co.
Chicago Auto Equipment Co.
Chicago Automobile Sup. House
Chicago Auto Parts, Inc.
Coliseum Battery Co.
Grimm Hansen & Treland
Ideal Auto Supply Co.
E. D. Kimball Co.
Motor Car Supply Co.
Sheridan Auto Supply Co.
Universal Automotive Supply Co.
Danville: Yeomans & Sheild Hdw. Co.
Evanston: Evanston Auto Co., Inc.
Ideal Auto Supply Co.
Galesburg: P. & M. Accessory Co.
Joliet: Barrett Hardware Co.
Trackman Auto Supply Co.
Peoria: Clark-Smith Hardware Co.
Cummings & Emerson.
Graham-Seltzer Co.
National E & A Supply Co.
Quincy: Tenk Hdw. Co.
Rockford: Schacht-Tuck Co.
Springfield: Central Auto Equip. Co.
Washington: Washington Automobile Supply Co.

INDIANA
Elkhart: Motor Supply Co.
Evansville: Orr Iron Company.
Ft. Wayne: Ft. Wayne Iron Store Co
Korte Bros., Inc.
Main Auto Supply Co.
Mossman-Yarnelle Co.
Wayne Auto Equipment Co.
Gary: Owens Auto Supply Co.
Goshen: Goshen Auto Equipment Co.
Huntington: J. E. Miller.
Indianapolis: Auto Equipment Co.
Gibson Company.
Kendallville: R. A. Wilkes & Co.
Logansport: Standard Auto Parts Co.
Richmond: John J. Harrington, Inc.
South Bend: Howard Cranfill Co., Inc.
The Gibson Co.
Terre Haute: John S. Cox & Son.

IOWA
Cedar Falls: Dayton Company.
Cedar Rapids: Cedar Rapids Auto Supply Co.
Davenport: Sieg Company.
Des Moines: Herring-Wissler Co.
Dubuque: Heeb Company.
Midwest-Timmermann Co.
Fort Dodge: Sieg Fort Dodge.
Oskaloosa: R. F. & W. B. Fitch.
Ottumwa: Sieg-Ottumwa Co.
Sioux City: Wm. Warnock Co., Inc.
Waterloo: Repass Automobile Co.

KANSAS
Atchison: A. J. Harwi Hdwe. Co.
Leavenworth: Economy Auto Supply Co.
Topeka: Southwick Auto Supply Co.

KENTUCKY
Louisville: Belknap Hdw. & Mfg. Co.

LOUISIANA
New Orleans: Southern Hdwe. & Woodstock Co., Ltd.

MAINE
Auburn: Darling Automobile Co., Inc.
Augusta: Fifield Brothers Co.
Bangor: American Gear Co.
James Bailey Co.
N. H. Bragg & Sons.
Rice & Miller Co.
Thompson, Bartlett & Stuart Co.
Lewiston: The Motor Supply Co.
Portland: James Bailey Company.
Edwards & Walker Co.
Emery-Waterhouse Co.
The Farrar-Brown Co.

MARYLAND
Baltimore: J. R. M. Adams Co.
Baltimore Gas Light Co.
J. R. Hunt & Company.
R. W. Norris & Sons.
Cumberland: Wilson & Pugh Co.
Hagerstown: Maryland Leather & Saddlery Co.

MASSACHUSETTS
Boston: American Motor Equip. Co.
Ashten-Dewey, Inc.
Butts & Ordway Company.
George Collins Company.
Decatur & Hopkins Company.
Hub Cycle & Auto Supply Co.
The Post & Lester Co. of Boston, Inc.
Wetmore-Savage Auto Equip Co.
John V. Wilson Co.
Brockton: Geo. Collins Co.
Fitchburg: Fitchburg Hardware Co.
Motor Tire Service Co.
Greenfield: F. I. Webster Co.
Holyoke: J. Russell Company.
Quincy: Geo. Collins Co.
Springfield: B. H. Spinney Co.
Tarbell-Watters Co.
Turners Falls: F. I. Webster Co.
Worcester: Duncan & Goodell Co.
Lewis Automotive Equipment Co.
Motor Tire Service Co.

MICHIGAN
Bay City: Jennison Hdw. Co.
Tyler Lowery Company.
Detroit: Automobile Equip. Co.
Automobile Supply Co.
The Beckley-Ralston Co.
E. A. Bowman, Inc.
Cumings Bros.
Michigan Automotive Supply Co.
Watkins & Radcliffe Company.
Escanaba: Delta Hardware Company.
Flint: Cumings Brothers.
Forncrook Auto Supply.
L. M. Hengesbaugh & Co.
Grand Rapids: Brown & Sehler Co.
Cumings Brothers
Sherwood Hall Co.
Piston Service Co., Inc.
Reliable T. & A. Co.
Tisch Auto Supply Co.
Ironwood: McFarlane Auto Sup. Co.
Kalamazoo: The Gibson Co.
Nusbaum Motor Supply Co.
Lansing: Fornerook Automotive Supply
General Distributing Corp.
Menominee: Northern Hdwe. & Sup. Co.
Muskegon: Reliable T. & A. Co.
Petoskey: Bremmeyr-Bain Co.
Pontiac: L. M. Hengesbaugh & Co.
Port Huron: Beard, Campbell & Co.
Saginaw: Saginaw Serv. Pts. Co.
General Distributing Corp.

MINNESOTA
Duluth: Hanson-Duluth Co.
Kelley-How-Thomson Co.
Marshall-Wells Company.
S. & S. Auto Parts Company.
Mankato: Southern Minnesota Motor Supply Co
National Bushing & Parts Co.
Minneapolis: The Automotive Supply Co.
Janney, Semple, Hill & Co.
Minneapolis Iron Stores, Inc.
National Bushing & Parts Co.
Plant & Co.
Reinhard Brothers Co.
Williams Hardware Co
Rochester: National Bushing & Parts Co.
St. Cloud: St. Cloud Auto Sup. Co.
St. Paul: Hackett, Gates, Hurty Co.
National Bushing & Parts Co.
Nichols, Dean & Gregg.
Scheffer & Rossum.
C. J. Smith & Co.
Speedometer Service & Accessories.
Virginia: S. & S. Auto Parts Co.

MISSOURI
Kansas City: The Equipment Co.
Richards & Conover Hdwe. Co.
Stowe Supply Co.
St. Joseph: Ross-Frazer Iron Co.
St. Louis: Knochook Company, Inc.
Shapleigh Hardware Co.
Sligo Iron Store Co.
Beck-Corbitt
Fleming-Petty Auto Supply Co.
Savannah: Cramer Auto Supply.

MONTANA
Billings: Marshall-Wells Co.
Hines Motor Supply Co.
Northwestern Auto Sup. Co.
Butte: Montana Hardware Co.
Great Falls: Marshall-Wells Co.
Montana Motor Supply Co.
Helena: Helena Hardware Co.
Missoula: Motor Supply Co.

NEBRASKA
Falls City: Falls City Auto Supply Co.
Grand Island: Storz Community Stores.
Lincoln: Nebraska Buick Auto Co.
Omaha: Kopac Brothers.
National Accessories Co.
Nebraska Buick Auto Co.
Paxton & Gallagher Company.
E. A. Pegau Company.
Storz Western Auto Supply Co.
Wright & Wilhelmy Co.

NEVADA
Reno: Nevada Auto Supply Co.
Reno Motor Supply Co.

NEW HAMPSHIRE
Concord: Thompson & Hoague Co.
Laconia: L. B. Warren.
Manchester: John B. Varick Co.
Auto Elec. Service Co.
James Bailey Co.

NEW JERSEY
Atlantic City: Norwood Tire Co.
Jersey City: Lehr Auto Supply Co.
Newark: Auto Equip. Co., Inc.
Economy Auto Supply Co.
Elin Auto Supply Co.
W. E. Pruden Co.; Inc.
Superior Distributors, Inc.
Thompson-Reilly Company.
Newton: Wm. W. Woodward Hdw. Co.
Paterson: Brighton Auto Sup. Co.
Trenton: Lebair Auto Supply Co.

NEW YORK
Albany: Albany Hdwe. & Iron Co.
Detroit Supply Company, Inc.
Peerless Auto Parts Co.
Amsterdam: Genesee Auto Supply Co.
Auburn: Smith & Pearson.
Binghamton: Rose Unit Parts Corp.
United Auto Parts, Inc.
Whipple's.
Brooklyn: Bushwick Auto Sup., Inc.
Eveready Motor Equip. Co., Inc.
Farrell Auto Sup. Co., Inc.
G. J. Seedman Auto & Radio Co.
Buffalo: W. Bergman Company.
Beals, McCarthy and Rogers
Buffalo Wholesale Hdw. Co.
Cycle & Auto Supply Company.
Joseph Strauss Company.
H. D. Taylor Company.
Weed & Company.
Cortland: Cortland Auto Supply Co., Inc.
Elmira: Barker, Rose & Kimball, Inc.
Gordon Motor Parts, Inc.
Geneva: Gordon Auto Parts Co.
Glens Falls: Detroit Supply Co.
Gloversville: Genesee Auto Supply Co.
Quaile Auto Gear Parts Co.
Ithaca: Treman-King Co.
Jamestown: Holmes & Volz, Inc.
Kingston: L. S. Winne Co.
Malone: Malone Auto Parts, Inc.
Malone Hdwe. Co.
H. D. Thompson & Co.
Middletown: E. E. Hunter, Inc.
Mt. Vernon: Globe Motorists Supply.
Newburgh: Mark Reeks Co., Inc.
New York: Auto Hdwe. & Equip. Co.
Auto Necessities Co.
Ebling-Murray Co.
Henry A. Gross Accessory Co.
Hammacher, Schlemmer & Co.
Lehr Auto Supply Co., Inc.
Lowe Motor Supplies Co.
Miller Auto Supply Co.
W. E. Pruden Hdwe. Co.
M. Schaffer.
Seedman Auto & Radio Co.
Superior Distributors, Inc.
Whitmore-Sims Co., Inc.
Plattsburgh: A. H. Marshall Co.
M. P. Myers & Co., Inc.
Plattsburgh Motor Service.
Geo. L. Starks Hdwe. Co.
Port Richmond: New York Motor Supply Co.
Poughkeepsie: Detroit Supply Co.
H. A. McRae & Co.
W. E. Pruden Co., Inc.
Rochester: Brennan Bosch, Inc.
Chapin-Owen Company.
Gordon Motor Parts, Inc.
Thomas J. Northway, Inc.
Sidney B. Roby Co.
Unit Parts Rochester Corp.
Saranac Lake: Geo. L. Starks Co.
Schenectady: Clark-Whitbeck Co.
Detroit Supply Co.
Gilchrest, Inc.
Syracuse: T. H. Appleby & Co.
Burhans & Black Co.
The Olmsted Co., Inc.
Onondaga Auto Supply Co.
Troy: Detroit Supply Co.
H. A. McRae & Co., Inc.
J. M. Warren & Co.
Utica: Bergan Supply Co.
Genesee Auto Supply Co.
Perry & Sherman, Inc.
Watertown: Onondaga Auto Supply Co.
White Plains: Lehr Auto Supply Co.

NORTH DAKOTA
Bismark: Quanrud, Brink & Reibold.
Fargo: Grant-Darley Co.
Fargo Motor Supply, Inc.
Minot: Minot Supply Co.
Reinhard Brothers Co.

OHIO
Akron: Hardware & Supply Co.
Pennsylvania Rubber Co.
M & M Company.
Canton: Canton Hardware Co.
The Dine-DeWees Co.
Chillicothe: Spetnagel Hdw. Co.
Cincinnati: Julius J. Bantlin Co.
Pennsylvania Rubber Co.
Cleveland: W. Bingham Company.
The M & M Company.
Pennsylvania Rubber Co.
Geo. Worthington Company.
Columbus: Griswold-Sohl Co.
The Justus & Parker Co.
Pennsylvania Rubber & Supply Co.
J. H. & F. A. Sells Company.
Lima: The Gibson Co.
Sandusky: The Erie Auto Supply Co.
Springfield: Pennsylvania Rubber & Supply Co.
Toledo: Bostwick-Braun Company.
The Union Supply Co.
Youngstown: Pennsylvania Rubber Co.
M & M Company.
Stambaugh-Thompson Co.

OREGON
Portland: Ballou & Wright.
Colyear Motor Sales Co.
The P. J. Cronin Co.
Honeyman Hdwe. Co.
The Geo. Lawrence Co.
Marshall-Wells Co.
Wiggins Co., Inc.
Salem: Colyear Motor Sales Co.

PENNSYLVANIA
Allentown: Allentown Auto Sup. Co.
Bee Automobile Supply, Inc.
Gehringer, Harlacher Company.
F. Hersh Hardware Company.
Motor Accessories Co.
C. Y. Schelly & Bro.
M. S. Young & Company.
Altoona: Central Supply Co.
Genuine Standard Parts Co.
A. C. Prutzman Co., Inc.
Butler: Hoffman Auto Parts.
Carbondale: K & K Auto Parts Co.
Clearfield: Clearfield Hdwe. Co.
DuBois: Hibner-Hoover Hdwe. Co.
Easton: Losey & Company.
Thos. T. Miller Hdwe. Co.
Way Brothers.
Erie: S. J. Miller Auto Supply.
Pennsylvania Rubber Co.
Franklin: Franklin General Equipment Co.
Greensburg: Air-Land Motor Parts Co.
Greenville: Munts-Wright.
Harrisburg: General Auto Sup. Co.
Harrisburg Auto Parts.
E. Mayer Company.
Myers Accessory House.
Hazleton: Automobile Supply Co.
Benjamin Auto Parts, Inc.
Wagner Bros. Hdw. Co.
Jere Woodring & Co.
Huntingdon: C. H. Miller Hdwe. Co.
Johnstown: Johnstown Automobile Co.
Swank Hardware Co.
Kingston: A. J. Roat Supply Co.
Lancaster: Herr & Company.
General Automotive Supply Co.
Reilly Bros. & Raub.
Steinman Hdw. Co.
Jas. F. Wild.
Lebanon: Geo. Krause Hdw. Co.
Newcastle: Elliott & Waddington
Norristown: Colonial Auto Sup. Co.
Oil City: Pennsylvania Rubber Co.
Patton: Central Hdwe. & Sup. Co.
Philadelphia: Berrodin Auto Supply Co.
Gaul, Derr & Shearer Co.
Geo. W. Neek & Co., Inc.
Philadelphia Motor Accessories Co.
Roberts Auto & Radio Supply Co.
Supplee-Biddle Hdwe. Co.
Philipsburg: A. B. Lansberry Hdw. Co.
Pittsburgh: Automotive Parts Co.
Beckley-Ralston Co.
Dyke Motor Sup. Co.
The Hukill-Hunter Co.
James C. Lindsay Hdwe. Co.
Logan-Gregg Hardware Co.
Love-Thompson Co.
Lyle Brothers.
Pittsburgh Auto Equipment Co.
J. G. Still Company.
Superior Auto Accessories Co.
Superior Motor Parts Co.
Woodward Co., Joseph
Pottsville: Biehls Auto Parts.
Geo. Bright Hdwe. Co.
Pottsville Supply Co.
Punxsutawney: Punxsutawney Hdwe. Co.
Reading: Bright & Company.
General Auto Supply Co.
Hafer Campbell Co.
National Auto Supply Co.
Stichter Hdwe. Co., Inc.

PENNSYLVANIA
Reading: E. S. Youse Co.
Scranton: K & K Auto Parts Co.
L. E. Morse Company.
The D. G. Nicholas Co.
The Robling Hamlin Co.
Chas. B. Scott Company.
Shenandoah: Benjamin Auto Parts, Inc.
Stroudsburg: K & K Auto Parts.
Uniontown: The Automotive Equip. Co.
Wilkes-Barre: Lewis & Bennett Hdwe. Co.
Benjamin Auto Parts, Inc.
K & K Auto Parts Co.
Kitsee Auto Store.
Williamsport: Kline & Company.
York: The Automobile Sup. Co.
H. B. Beard & Co.
General Automotive Supply Co.
Harper F. Myers.

RHODE ISLAND
Providence: Belcher & Loomis Hdwe. Co.
Franklin Auto Supply Co.
Mellor Sales Co.
Waite Auto Specialty Co.
Post & Lester Co. of R. I., Inc.

SOUTH DAKOTA
Aberdeen: Reinhard Bros. Co.
Sioux Falls: Dakota Iron Store.
Graff Motor Supply Co.
L. & L. Supply Co.
Watertown: Watertown Motor Accessories Co.

UTAH
Ogden: Weber Auto Supply Co.
Price: Eastern Utah Elec. Co.
Provo: Automotive Products Corp.
Salt Lake City: Inter-Mount. Elec. Co.
Motor Mercantile Co.
Salt Lake Hdwe. Co.
Strevell-Paterson Hdwe. Co.
Karl Winter.
Z. C. M. I.

VERMONT
Burlington: Hagar Hdwe. & Plat. Co.
Vermont Hardware Co., Inc.
Rutland: Frenier Supply Co.

VIRGINIA
Lynchburg: Perrow-Evans Hdwe. Co.

WASHINGTON
Aberdeen: Marshall-Wells Co.
Seattle: Ballou & Wright.
Colyear Motor Sales Co.
P. J. Cronin Co.
Marshall Wells Co.
Spokane: Colyear Motor Sales Co.
Jensen-Byrd Company.
Kilmer & Sons Co.
Marshall-Wells Co.
Tacoma: Colyear Motor Sales Co.
Walla Walla: Colyear Motor Sales Co.
Yakima: Colyear Motor Sales Co.
Yakima Hardware Co.

WEST VIRGINIA
Charleston: Motor Car Supply Co.
Clarksburg: Williams Hdwe. Co.
Elkins: Valley Supply Co.
Huntington: Emmons-Hawkins Hdwe. Co.
Huntington Auto Supply Co.
Morgantown: Monongahela Sup. Co.
Parkersburg: A. E. Supply Co.
Wheeling: Greer & Laing.
T. Hutchisson & Co.
Earl Rogers Co.

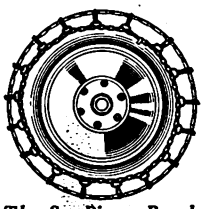
WISCONSIN
Appleton: Automotive Supply Co.
Schlafer Hdwe. Co.
Eau Claire: Auto Specialty Mfg. Co.
Clemons Auto Supply Co.
Eau Claire Auto Supply Co.
Fond du Lac: Erickson Elec. Co.
Green Bay: Green Bay Auto Parts Co.
Morley-Murphy Hdwe. Co.
La Crosse: Auto Parts Service Co.
Fred Kroner Hdwe. Co.
Madison: The Heeb Co.
Manitowoc: J. J. Stangel Hdwe. Co.
Marshfield: Northern Auto Supply Co.
Milwaukee: Ambrae Auto Supply Co.
Central Elec. Sales Corp.
Frankfurth Hdwe. Co.
Ph. Gross Hdwe. & Supply Co.
John Pritzlaff Hdwe. Co.
Reichardt Automotive Supply.
Shadbolt & Boyd Company.
Tisch Auto Supply Co.
Western Motor Supply Co.
Oshkosh: Oshkosh Auto Parts Co., Inc.
Racine: Racine Supply Co.
Rice Lake: Grover Auto Supply Co.
Stevens Point: F. & G. Auto Parts Co.
Wausau: Wausau Auto Equipment Co.
Wisconsin Auto Sup. Co.

WYOMING
Casper: Casper Supply Co.

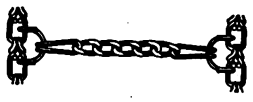
Flower City Specialty Co., 250 Mill St., Rochester, N. Y.

Digitized by Google

ST. PIERRE
Tire Chains & Chain Tools
DROP FORGINGS

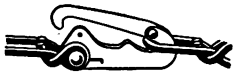


The St. Pierre Royal is the only chain especially designed for use on balloon and low pressure tires.



The Equalizing Link doubles the strength of the side chain. Reduces the cost of cross chain replacement.

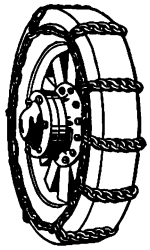
Engaging the chain



Drawing Slack and Closing Lock

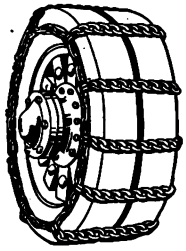
Lock Closed

St. Pierre Tire Chain Lock opens and closes like a jack-knife. Easiest lock to operate. Absolutely prevents loss of chains.



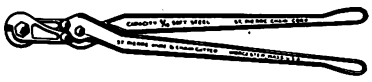
Pneumatic Truck and Bus Chains are constructed from heavy material designed to keep trucks moving under all road conditions.

No. 1 Plier. For removing and attaching passenger car cross chains.

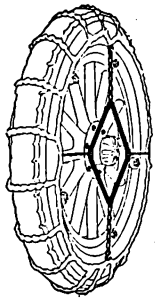


Dual Pneumatic Bus. Built extra heavy throughout. Specially adapted for long distance travel over difficult roads.

No. 4 Giant Plier. For opening and closing all cross chain hooks from smallest passenger car to largest truck chain sizes.



No. 2 Chain and Wire Shear. For cutting side chains of tire chains, soft steel round wire up to 5/16 inch.



St. Pierre Chain Adjuster. Efficient, Noiseless. Extreme flexibility.

DROP FORGINGS.—Our forge shop is fully equipped to produce a large volume of medium and lightweight drop forgings. The machine shop has a complete modern equipment for sinking dies of all kinds.
We will be glad to estimate on your drop-forging requirements.

ST. PIERRE CHAIN CORP.
WORCESTER MASS.

ROUND TIRE CHAINS

CLEVELAND has a complete line of regular and heavy duty weight, Wear-Well and Duo-Wear tire chains. All sizes to fit cord and balloon tires. Special quality extras may be furnished.

Also a complete line of high quality truck chains. Made in all sizes. Single pneumatic chains furnished with Lock weave or Welded side chains. Cross chains every two or four links in regular or extra heavy types.

We manufacture all types of Bus chains, Truck chains—in single solid, dual solid and pneumatic types. Tractor chains—in single solid and dual solid types, and Overman Cushion Truck chains in single and dual types. Also a complete line of cross chain replacements, Welded truck side chain replacements, Lock weave side chain replacements, Skid hooks, Security fasteners, Lever fasteners, Quick repair links, Rubber Tire chain adjusters, Tow chains and Economy truck tire chains. Write for quotation.

WEAR-WELL

DUO-WEAR

TRUCK

The Cleveland Chain & Manufacturing Co.
CLEVELAND
OHIO

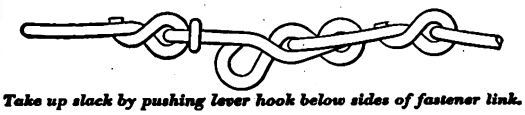
Digitized by Google

the McKAY *fastener*

—the McKay Silvery Finish
—the McKay Hardening Process

sells McKAYS

Showing how easily end link is slipped over lever hook.



Take up slack by pushing lever hook below sides of fastener link.

Slide keeper link past hook of lever—let go of the lever and the keeper link will slide into the hook of the lever and you're ready to go. To open fastener, just reverse the above operation.

● The McKay Fastener is distinctly McKay . . . it's the best fastener on the market . . . . it will help you sell tire chains . . . for these four reasons—

1—Your motorists cannot lose chains with the McKay fastener.

2—It's the easiest fastener to put on or take off.

3—Its operation is not affected by snow, ice, mud or rust.

4—No tools of any kind are required for opening or closing.

The new McKay Silvery Finish (rust-resisting) and the McKay Hardening Process which insure long chain life make McKays still easier to sell.

Write for the Complete McKay Story

United States Chain & Forging Co.
Union Trust Building, Pittsburgh, Pa.

The NEW Silvery Rust Resisting

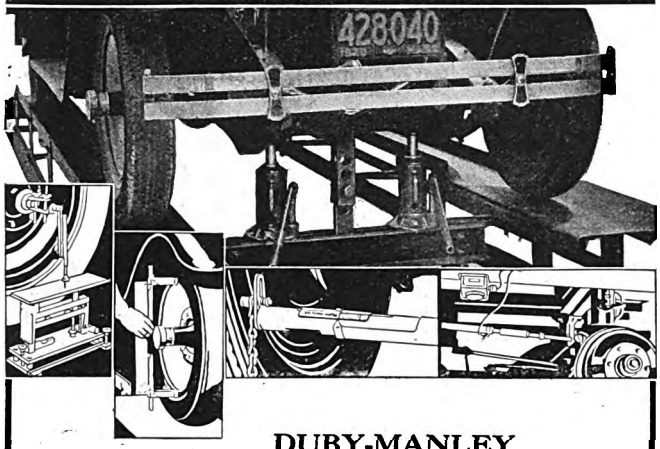
McKAY

TIRE CHAINS

The **McKAY LINE**
now includes
both
STEEL *and* RUBBER
TIRE CHAINS

Digitized by Google

THE RIGHT TOOL for every service job



DUBY-MANLEY

AXLE STRAIGHTENING & GAGE EQUIPMENT

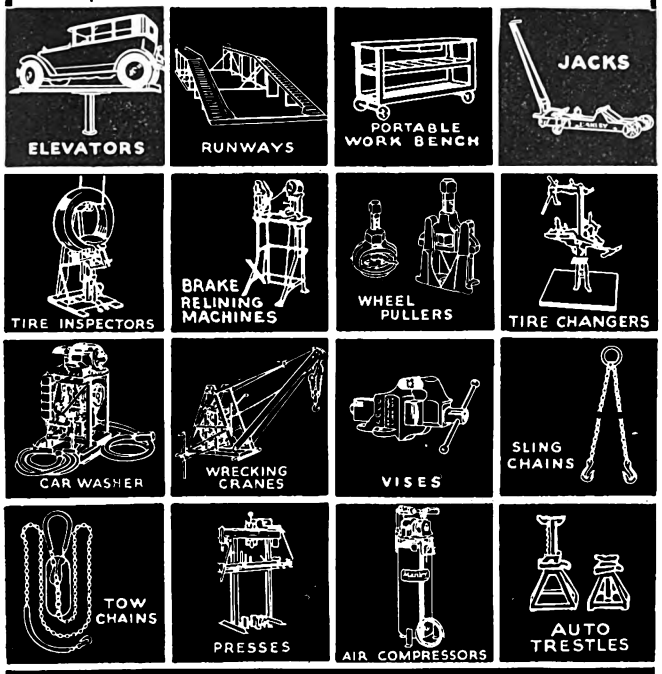
Up-to-date equipment pulls the trade. They like to see a job done quickly and a job done right. Duby-Manley Axle Straightening Equipment and Gages turn out a job that is perfect . . . and profitable. Manley Servicing Equipment is used world-wide. Every Manley Product is correctly designed to do the job. Sturdiness and utility are built in.

Write for new catalogue which illustrates and fully describes Manley Shop Equipment.

MANLEY MANUFACTURING COMPANY
926 Connecticut Avenue Bridgeport, Conn.

AN ASSOCIATE COMPANY OF THE AMERICAN CHAIN COMPANY, *INC.*

ALSO . . .



MANLEY
SERVICING EQUIPMENT

WEED

Tire Chains
Tire Chain Adjusters
Tire Chain Pliers
Tire Chain Repair Tools
License Plate Brackets
Spare Tire Locks & Chains

ACCO

Vises
Storage Battery Carriers
Sling Chains
Towing Chains
Muffler Cut-Out Chains

AMERICAN

Emergency Tire Chains

CAMPBELL

Self-locking Cotter Pins

Made by the American Chain Company, *Inc.*
Bridgeport, Conn.

MANLEY

Air Compressors
Air and Water Stations
Auto Elevators
Auto Washers
Brake Lining Machines
Engine Stands
Hydraulic Hacks
Hydraulic Presses
Paint Spray Equipment
Screw Presses
Service Runways
Tire Changers
Tire Inspectors
Towing Poles
Towing Trucks
Vises
Wheel & Gear Pullers
Wrecking Cranes

Made by the Manley Manufacturing Company
Bridgeport, Conn.

An Associate Company of the American Chain Company, Inc.

TRU-STOP

Emergency Brakes for Trucks & Busses
Brake Controls

TRU-LAY

Automobile Brake Cable
Flexible Control Cable

TRU-LOC

Cable Fittings

Made by the American Cable Company, *Inc.*
New York Central Bldg., 230 Park Avenue, New York, N. Y.

An Associate Company of the American Chain Company, Inc.

WRIGHT HOISTS

Made by the Wright Manufacturing Company
Bridgeport, Connecticut

An Associate Company of the American Chain Company, Inc.

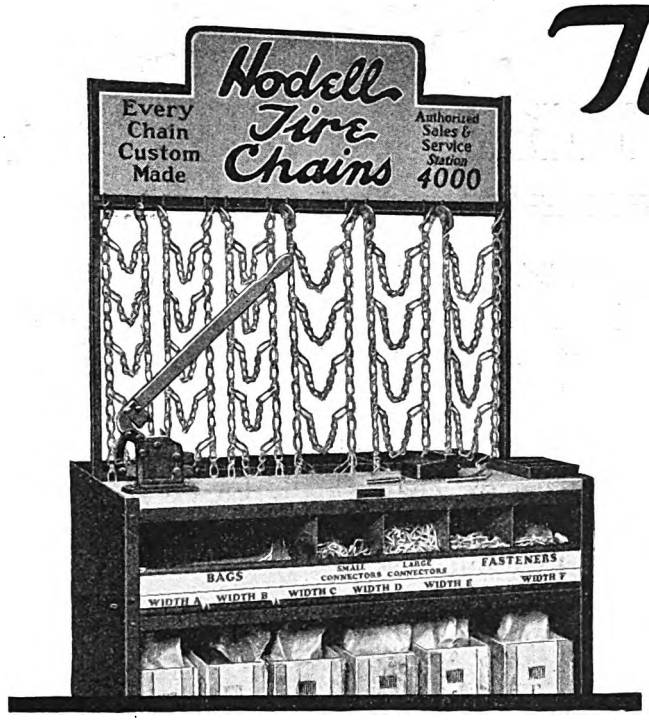
RUBBER SHOCK INSULATORS

Made by the Rubber Shock Insulator Corp.
Bridgeport, Connecticut

An Associate Company of the American Chain Company, Inc.

Digitized by Google

Hodell Quality Tire Chains



FOR COMPLETE TIRE CHAIN SERVICE

10 Reasons Why You Should be a Hodell Registered Dealer

1. Reduced investment
2. No obsolete sizes
3. All sizes always in stock
4. No lost sales
5. Increased sales—more profit
6. Every dealer has his own tire chain factory
7. Repeat business comes without sales resistance
8. Every Hodell Servistation is the best sales help
9. Profitable repair service builds business
10. Sell truck chains from Hodell Servistation

LOW inventory, with resulting high profit . . . that's why dealers the country over are swinging to the Hodell way of chain merchandising.

The Hodell Servistation (Patented) stocks just six sizes of chain . . . that's all . . . to fit every car on the road. Cross chains and side chains already made up. It's a mere five-minute job to make a set of chains for any car. Just attach fasteners, cut the side chains and there you are.

And the chain repair business the Hodell Servistation will bring . . . alone, nets substantial profits.

Chain manufacturers since 1886, Hodell Chain has a nationwide reputation for quality. A Hodell Chain customer *stays* a customer.

THE CHAIN PRODUCTS CO

ESTABLISHED 1886

Cooper Avenue and Penna. R. R. :: Cleveland, Ohio

THE HODELL ONE-HAND FASTENER

A simple, convenient chain fastener.
Clicks open — clicks shut in a jiffy.

THE CHAIN PRODUCTS COMPANY
Cooper Ave. and Penna. R. R., Cleveland, Ohio

Please send me complete information on the profitable Hodell method of merchandising tire chains.

Name _____

Address _____

City _____

Digitized by Google

WOODWORTH LUBRICATING SPRING COVERS

Make Easy-Riding Cars

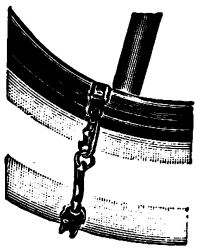
The Woodworth standard adjustable covers are adjustable in both length and width, making it possible to fit them perfectly to the springs, and saving the high cost of making the covers to order. They have a felt pad on the inside, which is saturated with oil when the covers are put on and there are oil holes for replenishing the oil. They can also be used with grease if preferred.

The edges overlap on the underside of the spring and are held together with a hook and lace fastening.

Very easy to fit. Full instructions with every set.

TWO QUALITIES: A smooth, oil-tight, artificial leather and a specially prepared water and oil-proof genuine leather that never absorbs oil.

PRICE PER SET	No. of Covers Required	Artificial Leather	Genuine Leather
For cars with semi-elliptic springs.....	8	$ 7.00	$14.00
For Franklin cars	16	12.00	24.00
For Ford Models A and T.....	4	2.00	4.00

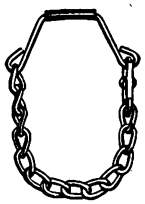


EASYON CHAINS

Single Chains snapped around the tire and rim between the spokes. Put on in a moment even when up to the hub in mud. They have a patented cross chain that lies flat on the tire causing no bumping on pavements but turning partly on edge when the wheel slips, digging into snow, mud, ice or sand, like a mud-hook. For wood or wire wheels.

Prices:		
For tires up to 4.50".....	35c each
For tires 4.75" to 5.25".....	40c each
For tires 5.50" to 6.20".....	45c each
For tires 6.50" to 7.30".....	50c each

For Chevrolet Disc Wheels with 4.50" tires special chains are made with thin clips to fasten to the rim bolts. The cross chains fasten to these with a snap on each end. Price 35c each.



HANDICHAINS

are like EasyOns but have twisted link chain across the tires.

SMALL SIZE Sizes of Tires Fitted	Prices Each Plain Steel	Hardened & Plated
3½ in., 4 in. high pressure, 4.40 in., 4.50 in. balloons	20c	30c
Weight per 100, 54 lbs.		
MEDIUM SIZE		
4½ in. high pressure, 4.75 in., 4.95 in., 5.00 in., 5.25 in. balloons	30c	40c
Weight per 100, 75 lbs.		
LARGE SIZE		
5 in. high pressure, 5.45 in., 5.50 in., 5.70 in., 5.75 in., 5.77 in., 6.00 in., 6.20 in. balloons.....	35c	50c
Weight per 100, 85 lbs.		
SPECIAL SIZE		
For Ford Wire Wheels.....	20c	30c
Weight per 100, 54 lbs.		

Woodworth Specialties Co.

121-125 Montgomery St.

Binghamton N. Y.

DEALERS' DISCOUNT: 33 1/3%. If your jobber doesn't have them, send us your order. Special offer to distributors who can carry a complete stock and supply dealers.

Lion TIRE CHAINS

LION tire chains are heavy constructed chains made for all sizes of passenger cars and trucks, tractors and busses. Cross chains are case hardened.

Cub tire chains are a lighter weight chain made up of best material and cross chains are case hardened. CUB chains made in passenger car sizes only.

LION and CUB chains are packed in individual cartons making nice counter display.

Cub

ACCESSORIES

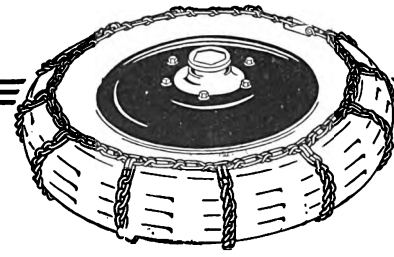
TOWING CHAINS
REPAIR LINKS
CHAIN ADJUSTERS
EMERGENCY CHAINS

Manufactured by

LION CHAIN COMPANY

Incorporated

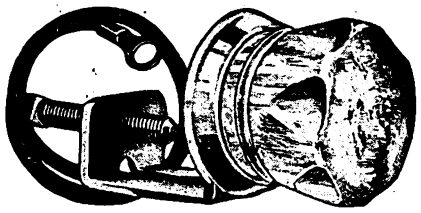
3124 W. 51st Street, Chicago, Ill.



Digitized by Google

CASCO

WIRELESS VISOLITE LIGHTERS



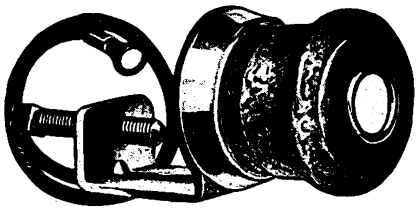
NO. 480 ONYXOID VIS-O-LITE

Beautiful in appearance, always dependable in operation, No. 480 is an essential accessory that enhances the appearance of any dash. The translucent Onyxoid head glows when unit is hot and ready for use. Recessed heating element cannot burn hands or clothing. Press in for contact, take off, pass around. List Price $2.50.

No. 600 Two piece head $1.25 list.

No. 470 One piece head $1.00 list.

Also in combination with disappearing ash receivers.



NO. 530 BAKELITE VISOLITE

This attractive lighter with head of beautifully mottled brown Bakelite and nickel trim is fitted with an indicating lens thru which a glow shows when unit is hot. Recessed heating element. List Price $1.75.

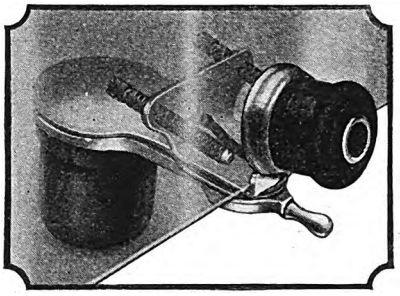
No. 1480

DISAPPEARING ASH RECEIVER COMBINATIONS

An ideal and complete smoker's outfit for the motorist. Lighter and Disappearing Ash Receiver assembled in one unit. When not in use Ash Receiver is under dash. A slight pressure on the knob brings receiver out to a convenient angle as in illustration to the left. No smoke—no odor—the air-tight baffle plate automatically smothers cigarettes. No. 1480 List Price $3.50. Patents Pending.

Casco also makes a complete line of reel-type electric cigar lighters. Write for complete catalog pages.

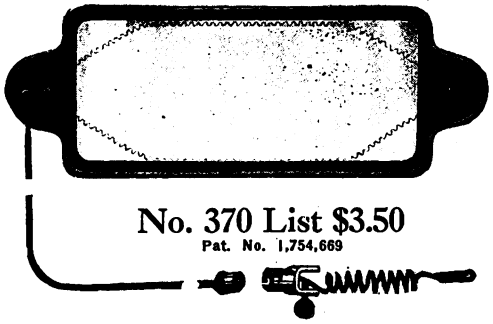
No. 450 Disappearing Ash Receiver only $1.50 list.



No. 1530 Combination showing Ash Receiver under dash—out of the way and out of sight—sealed tight by baffle plate. List Price $3.00.

CASCO WINDSHIELD DEFROSTER

One design fits all cars, trucks, busses and Model A Fords.

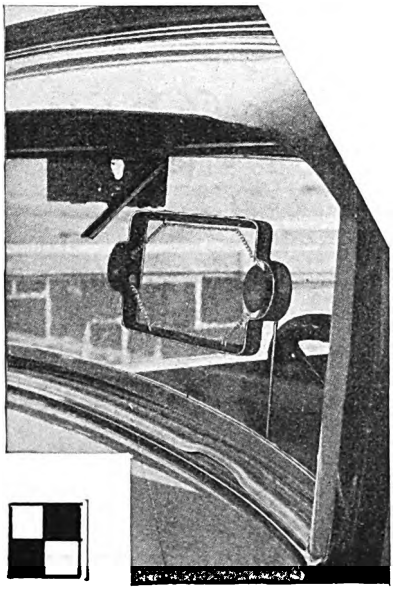


No. 370 List $3.50

Pat. No. 1,754,669

and Electric ICE - SLEET REMOVER

Window display streamers and circulars free.



At last a scientifically constructed Windshield Defroster. Prevents ice, sleet or snow from obstructing the driver's vision and the condensation of vapor on the inside of the windshield within its area. A metal frame to which is moulded a live rubber flange encases a piece of plate glass and supports the coil heating element. Suction cups attach device to windshield holding rubber flange firmly against glass to form an atmospheric seal. Positively efficient. Will not crack or injure windshield.

The illustration to the left shows the vacuum cup attachment and complete rubber mist seal.

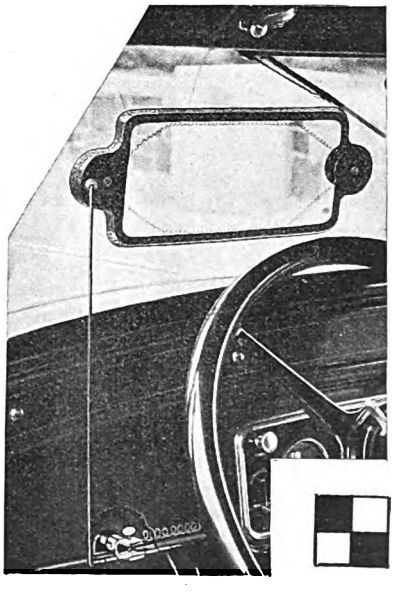
The illustration to the right shows inside of the Defroster as applied to the windshield. Narrow frame allows greater vision. It takes but a few minutes to clamp the connector to the dash, attach wire to live binding post, apply the Defroster to the windshield and plug in.

ORDER FROM YOUR JOBBER

CASCO PRODUCTS CORP.
BRIDGEPORT, CONNECTICUT

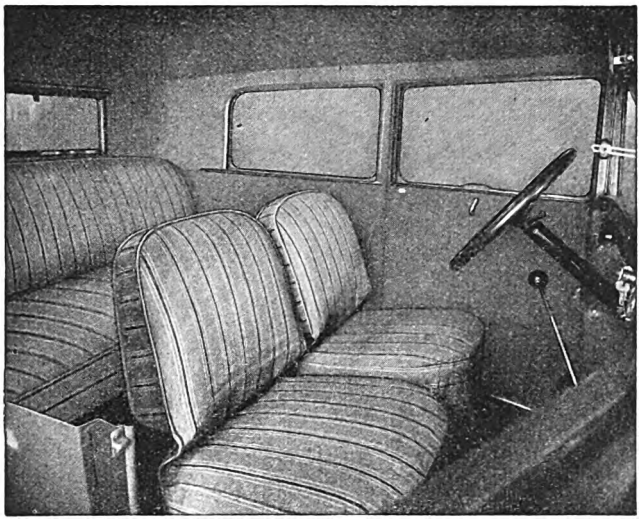
Detroit Office—General Motors Bldg.

Also Speedometer Swivel Joints—Metal Floats, Etc.



Digitized by Google

KEEP KLEAN PRO-TEX SEAT COVERS



PATENT APPLIED FOR

KEEP KLEAN Pro-Tex Seat Covers give an assurance of perfectly tailored fit. With them you can get 80% protection at 30% of the cost. Pro-Tex Covers are made of genuine seat cover material. They are interchangeable on all standard makes of cars—adjustable to fit any car, any year. Keep Klean also manufactures Service Covers for use on Fenders, Cowl, Doors, Steering wheel and seats during overhauling jobs. Send for prices and samples.

A COMPLETE line of quality tire covers furnished plain or with allowance for advertising. A style for every type of wheel. For any special needs you may have, we manufacture tire covers in any style and any material. Send for our latest price list.

Keep Klean Cover Co.

11th and Tyler Sts. St. Louis, Mo.

◆

UPHOLSTERY FABRICS

◆

CARPETS

◆

CURTAIN MATERIALS

◆

CUSTOM-MADE LAPROBES

◆

WM. WIESE & CO., INC.

234 WEST 56TH STREET

New York

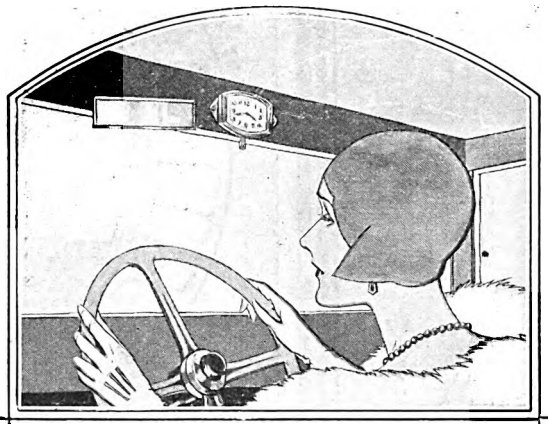
Foremost for Three Generations

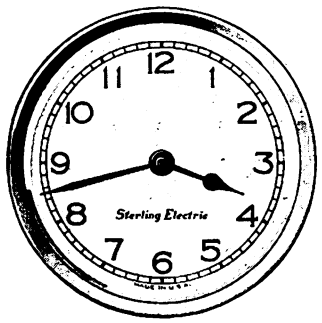
◆

Digitized by Google

This announcement—the first of a series of advertisements that will reach millions of car owners—appeared in a recent issue of Collier's Weekly.

Extensive publicity of this character will establish a nationwide demand for the Sterling Electric automobile clocks that run without winding.





FOR MOUNTING ON DASH
$10.00

NEVER BEFORE A CLOCK LIKE THIS

FOR MOUNTING ABOVE WINDSHIELD
$12.50

MANUFACTURERS wanted it, car owners demanded it . . . and here it is . . . a dependable . . . jeweled . . . Electric Automobile Clock. You never wind it. Vibration will not stop it. Temperature changes do not affect it. Takes less current in a year than your dash light does in two hours. Easy to install. Two models to choose from—one for above windshield, the other for dash. Have your car equipped today. No car is complete without the clock that runs without winding. To meet the sweeping demand that will follow the announcement of this remarkable development, enterprising dealers everywhere are stocking the new Sterling Electric Clock. Priced well within the reach of the Fifteen Million Motorists Whose Cars Are Not Equipped with Dependable Timepieces. Should your dealer be unable to supply you, use the coupon below as an order blank, or request more complete details and interesting pamphlet describing the new Sterling Electric Clocks.

New *Sterling Electric* AUTOMOBILE CLOCK

Special designs are being built for the exclusive use of the manufacturers of many of America's finest cars.

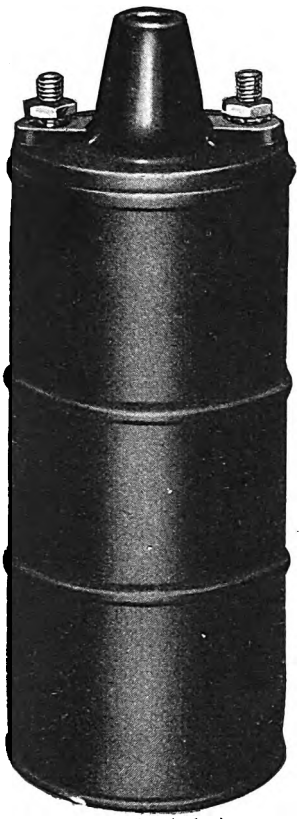
STERLING CLOCK CO., INC., LA SALLE, ILLINOIS
Division of Western Clock Company
In Canada—Distribution and Service: Western Clock Co., Ltd., Peterborough, Canada

Sterling Clock Co., Inc., La Salle, Ill.
Gentlemen: Send me . . . postpaid . . . new Sterling Electric Clock (enclose check or P.O. money order . . . $10 for dash model . . . $12.50 for clock that attaches above windshield . . . add $1 more for luminous dial).
Place X here ( ) for further details and pamphlet "Why Not a Clock that Runs Without Winding?"
Car and accessory dealers check ( ) for particulars.
*Name*_____
*Address*_____
*Make of my car is*_____ *Model*_____
*My Dealer's Name is*_____

Digitized by Google

JEFFERSON IGNITION COIL

UNIVERSAL

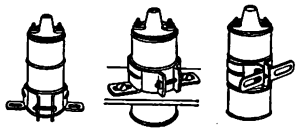


COIL TESTER

Without removing coil from car, and while the customer looks on, you can attach Tester to old coil and convince owner he needs a new coil to replace the worn one. Order a few U-10 coils and a Tester from your wholesaler today. $12.00 list. $18.50 in Canada.

$3.00 LIST

WITH UNIVERSAL BRACKET



Base Mounting | Thru Dash Mounting | Side Mounting

The new powerful Jefferson U-10 Ignition Coil, with new universal bracket, and new low price of $3 list, means simplified installation and easier selling.

Ideal for replacement on practically all cars, trucks, busses and tractors which have the condenser built into the distributor. The low price appeals, and you can sell seven out of every ten motorists whose coils you test with a Jefferson Coil Tester.

UNION

AUTOMOBILE *fuses*

Convenient metal boxes containing 5 fuses each.

Besides attracting sales, this display card serves as a permanent and convenient holder for your supply of fuses.

No. A-3 Display Card Assortment consists of 100 fuses—20 individual metal boxes, each containing five fuses of the most popular selling sizes. This assortment, which fills the display card, costs you only $2.75 net, including display card.

No. A-4 Display Card Assortment consists of 200 fuses—100 (20 boxes of five each) on card and 100 fuses (20 boxes) of same size and amperage for replacement of boxes sold from card. Costs you only $5.25 net. Order one of these assortments from your wholesaler today.

JEFFERSON ELECTRIC COMPANY

1508 S. 15th Street, Chicago, Ill.

Manufacturers of Electric Fuses, Fuse Clips, Ignition Coils, Vibrating Ignition Coils and Electrical circuit testing instruments.

AUTOMOTIVE ELECTRIC STANDARD

AES

Approved Quality

NIEHOFF PRODUCTS

A COMPLETE LINE OF IGNITION REPAIR PARTS, BRUSHES, COILS, STARTER PARTS ETC. FOR ALL CARS.

This organization has consistently co-operated with the jobbing trade. It has established a sound merchandising policy which has proven profitable to the jobber and dealer. The repair parts field offers increasing possibilities. The recognized quality of the A.E.S. line, which is backed by a dynamic sales plan, assures success. Write for complete catalog and further information.

C.E. NIEHOFF & CO.
230 WEST SUPERIOR ST.
CHICAGO, ILLINOIS

Digitized by Google

TIRE COVERS

"ZIPTITE"—With Hookless Fastener
"SPRING-ON"—With Parkerized Springs
"SPRING-BUTTON"—A New Patented Cover
"BUTTON-ON"—For side mount tires
"ELASTIC-SLIPOVA" — For low price

WITH EMBLEMS AND ART WORK OR PLAIN
20 FABRICS

SEAT COVERS

SIX STYLES
10 FABRICS

WORK GARMENTS

SHOP SUITS—"Very Durable"
INSPECTOR COATS—"Very Snappy"
COUNTER COATS—"Dapper Dan"

CUSTOM TAILORED
10 FABRICS

TRUNK COVERS
TOP RECOVERS
CAR PROTECTORS
INSIDE VISORS
"FENDER SPATS"
DRIVERS CUSHIONS
PILLOWS, ETC.

IN FACT
A MOST COMPLETE LINE OF FABRICATED PARTS AND ACCESSORIES

WE SELL DIRECT TO DEALERS

AUTOMOTIVES, Inc.
30 EUCLID AVENUE
NEWARK, N. J., U. S. A.

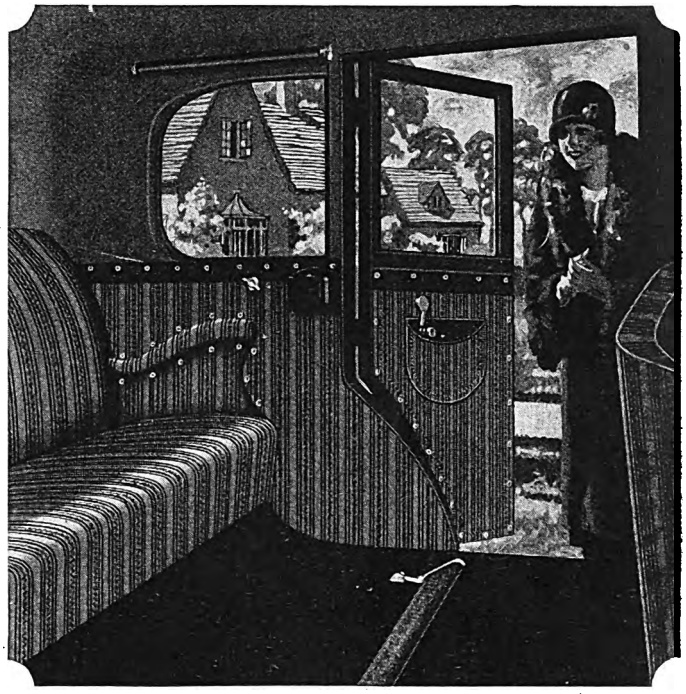
WRITE FOR NEW CATALOG

Build Good Will and Profits by Selling

NATIONALLY ADVERTISED

BILTMORE SEAT COVERS

T.M.REG. U.S. PAT. OFF. PATENTS PENDING



Biltmore Seat Covers for all makes and models of cars, are the acknowledged pace makers wherever quality is appreciated. The line is complete. Patterns, fabrics and workmanship absolutely guaranteed. Priced to meet every requirement of the market and to assure the most liberal margin of profit to the dealer. Prompt service from coast to coast.

Biltmore Aerocloth Door and Seat Covers, washable with soap and water or gasoline without removing from car.

Biltmore DeLuxe Covers, complete from floor to window line individually hand cut and tailored to order.

Biltmore Standards, self trimmed or bound in leatherette, are carried in stock for all popular cars.

Biltmore Slip-Ons and Speedway Seat Covers (Patents pending) fastest selling quality covers on the market.

Biltmore Seat Covers have been consistently advertised in The Saturday Evening Post and other leading national magazines and newspapers for twelve years. Consumer preference breaks down price resistance and assures rapid and profitable turn over.

WRITE FOR FREE SELLING HELPS

Complete catalog showing entire Biltmore line of Seat Covers, carpets, tire covers, luggage carriers and Stick Tite Top Patch on request. Also free counter and window displays, mats, electros and other valuable sales helps.

The Biltmore Manufacturing Co.

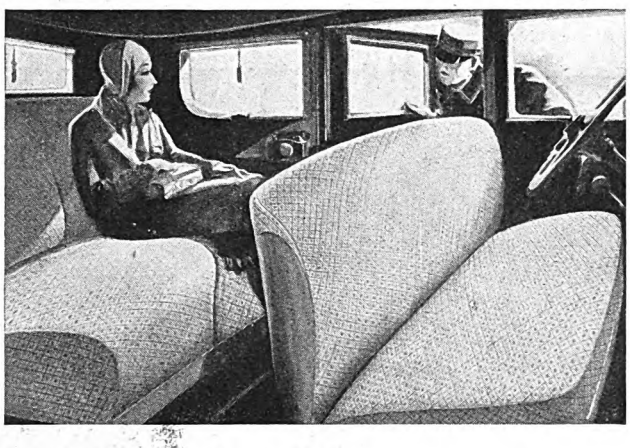
1747 Central Avenue
Cincinnati, Ohio

2401 Santa Fe Avenue
Los Angeles, Cal.

Digitized by Google

AutoMatic SEAT COVERS

Reg. U. S. Pat. Off.



1,000,000 Car Owners Will Buy AUTO-MATIC Seat Covers This Year

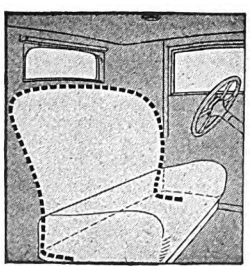
The Sensation of the Automatic Age

The reason is simple. *These amazing seat covers slip into place and keep in place without fasteners of any kind.* No pins, tacks, snaps, screws nor hooks to mar upholstery, to tear clothing or waste time. Whatever the make or model of the car, these amazing Auto-Matic seat covers can be put on and removed in five minutes!

Auto-Matic Seat Covers come in THREE MODELS (in beautiful materials) . . . and they fit any car, old or new; closed or open. This simple, yet ingenious Auto-Matic principle of adjustment has revolutionized the Automobile Seat Cover industry. Write or wire at once for full information. Remember with Auto-Matics you need stock only 3 models and they slip on in 5 minutes.

AUTOMATIC SEAT COVER CORPORATION

120 East 16th St., Dept. K., New York City



PUT ON IN

5

MINUTES

By this ingenious, yet simple principle, a self-adjustable concealed frame (patents pending) fits neatly into position, conforming perfectly to the seat's contour and holding the fabric in made-to-order trimness over the upholstery.

Recognized Quality HAMPDEN AUTOMOTIVE PRODUCTS

LOOK THIS OVER

and get on the Hampden mailing list for new price sheets, discount sales bulletins, trade aids. A complete dealer service for serviceable, profit-making items.

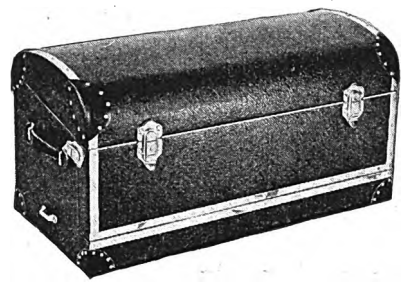
New Universal Jiffy Seat Covers
Fit all sedans, coaches and coupes. Eliminate stock sizes. Fast sellers.

Seat Covers
Newest colorful patterns of serviceable material. Easily attached with patented pin fasteners. Tailored with the care and exactness of a custom-made suit.

Sport Top Boots and Tire Covers
Style and sport items. A snappy and well made top boot and tire cover to match is demanded by all Ford and Chevrolet Owners.

Rumble Seats
Affords extra passenger space and sells readily when the car is purchased or after. Easily replaces rear deck. Comfortable and complete.

Rumble Seat Tops
As necessary as the car top itself. Easily sold on sight. Easy to attach. Carried in utility bag when not in use. Made for all current 1928-29-30 roadsters, coupes, cabriolets.



Eyelid
Sun and headlight glare shield that is adjustable from the inside top of car.

Assist Cords and Robe Cords
As necessary as a subway strap hanger and decorative too.

Auto Trunks
Stylish, distinctive, a touring necessity. Light, but strong and non-rumbling. Waterproof throughout. Fit cars with factory equipped racks. Trunk covers with Zippers on each side available.

Two Toms (Tar-Oil-Mud Shields)
A new item, so necessary for keeping the back of the car clean. Appreciated by all car owners. Low priced. Sold on sight.

FronToms (Sport Bumper Shields)
Chromium plated FronToms keeps bumpers and front of car free from tar, oil and mud. Attractive box makes attention display for quick sale.

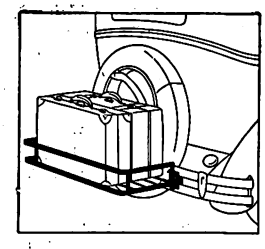
Arm Rests
Arm chair comfort for the auto. For all cars—front or rear seats. Type "A" Nickeled—adjustable to any position. Type "B" Enameled—hooks over the moulding.

Foxy-Nob
Provides a sure place to keep registration card always at finger tips. Two-color display card with each box.

Glass Enclosures
For all open cars. A substantial cold weather comfort item. Solid frame type with sliding glass door panels.

Robes
Velour, Carical, Plaids and Mohairs. Made to sell at attractive prices.

Luggage Racks
A real touring necessity. Folds up against spare tire when not in use. Quickly attached or detached.



HAMPDEN AUTOMOTIVE PRODUCTS INC.
formerly Hampden Auto Top & Metal Co.
SPRINGFIELD, MASS.

Digitized by Google

GUARANTEED PRODUCTS.....

BACKED BY FIVE MILLION DOLLARS IN FINANCIAL RESPONSIBILITY

PURGO RADIATOR CLEANER

Guaranteed to dissolve and loosen all accumulations in auto cooling systems. Prevents overheating. Nationally advertised.

8 oz. can retails at 75c
Dealer's Cost—$5.40 doz.

RADIATOR NEVERLEAK

Guaranteed to stop leaks in automobile radiators. Will not clog or impair circulation. A 10 year success. Nationally advertised.

Size	Retails at	Dealer's Cost
4½ oz.	$.50	$3.60 Doz.
9 oz.	.75	5.40 "
13 oz.	1.00	7.20 "

NEVERLEAK GASKET SHELLAC

A long-time favorite with the trade.

Size	Retails at	Dealer's Cost
2 oz.	25c	$1.08 Doz.
Pint cans		5.00 "
Quart "		8.33 "
1 Gal. "		24.00 "

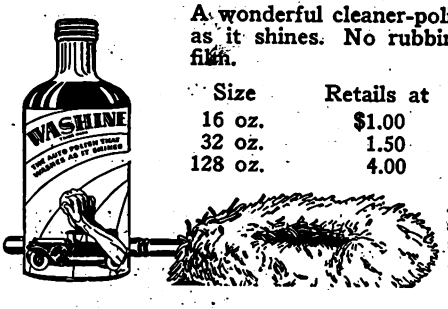
NEVERLEAK TOP DRESSING

Makes old tops new. Dries at once. Absolutely water-proof.

Size	Retails at	Dealer's Cost
8 oz.	$.60	$4.32 Doz.
16 oz.	1.00	7.20 "
32 oz.	1.75	12.60 "

WASHINE

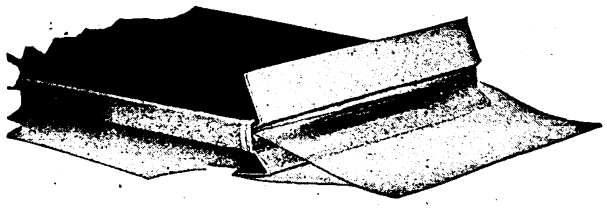
A wonderful cleaner-polish that washes as it shines. No rubbing. No greasy film.



Size	Retails at	Dealer's Cost
16 oz.	$1.00	$7.20 Doz.
32 oz.	1.50	10.80 "
128 oz.	4.00	2.40 each

Attractive Premiums are Given With Assortments of Above Products

LIQUID VENEER CORP.
822 LIQUID VENEER BLDG.
BUFFALO, N. Y.



KODALOID

Window Curtain Material of Superior Transparency, Strength, and Color

KODALOID—cut and packed for convenient use in automobile curtain windows—is an ideal product with which to accomplish quality work in the shortest possible time. In addition to its glass-clear transparency, natural lustre, strength, and freedom from color, it is flexible . . . lies flat . . . cuts cleanly . . . sews well . . . and holds the stitches.

Kodaloid is supplied in 25, 50, and 100 sheet boxes.

KODATAPE

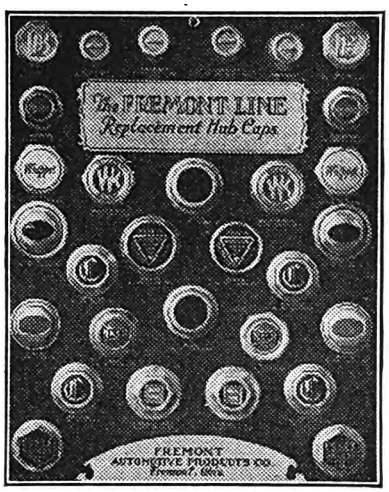
A New, Improved Shielding Tape

KODATAPE saves time where it is desired to protect one color or surface while another is being finished. It is easy to apply—comes off readily, leaving a clean surface and a sharp dividing line. In addition, solvents do not quickly penetrate to the adhesive. It "sticks" to the job and may be used repeatedly.

EASTMAN KODAK COMPANY
Chemical Sales Department
ROCHESTER, NEW YORK

Digitized by Google

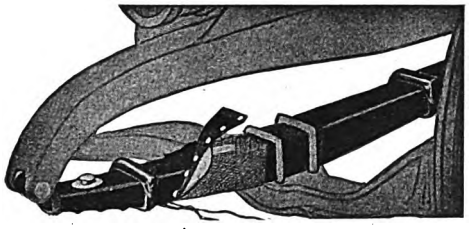
FREMONT HUB CAP REPLACEMENTS



Complete line of hub cap replacements for all popular makes. Mounted on an attractive display board. It contains 30 regular Fremont line replacements. Caps are made of high grade aluminum. All guaranteed to fit perfectly and according to manufacturers' specifications. Board lists at $15. Also packed in handy box assortments.

FREMONT AUTOMOTIVE PRODUCTS CO.
110 E. STATE ST.
Fremont, Ohio

JEAVONS SPRING COVERS



JEAVONS Quick-on Spring Covers are made of one piece of special imitation or genuine leather to conform to the shape of the springs and cover the spring clips. They are durable, neat, quickly installed and reasonably priced. No cutting of the covers. Provided with lubricating pad under the cover which also covers the spring. Oil or grease. Installed in 30 minutes. Write for prices and discounts.

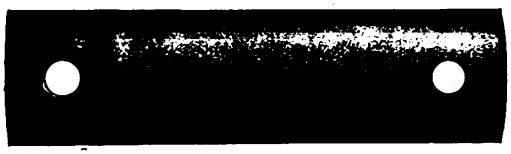
THE JEAVONS COMPANY
110 E. STATE ST.
Fremont, Ohio

THE JEAVONS CO.

110 E. STATE ST.
Fremont, Ohio

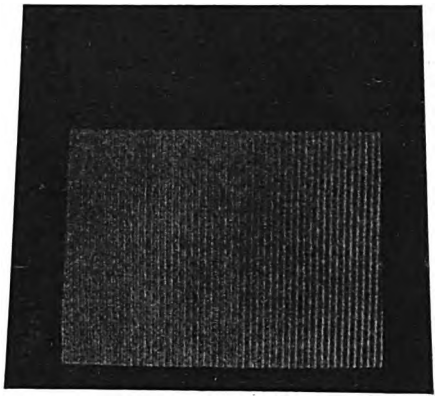
VICTOR

Automotive Rubber Products



Flexible Generator Couplings

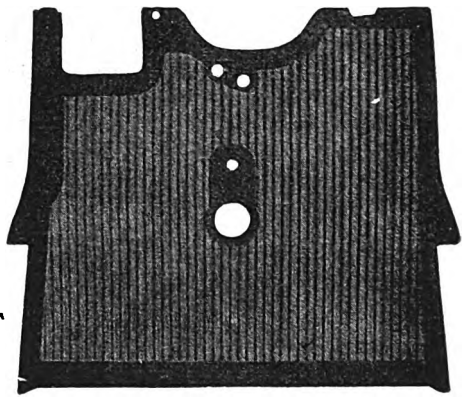
Made of long staple tire fabric with a heavy skim ply of rubber stock between each ply of fabric, preventing separation and giving flexibility and long service. The quick jar of starting and stopping is absorbed and gives adequate generator protection. Adopted by the largest users of couplings as original equipment. Made with red cover and numbered according to table of coupling specifications.



VICTOR Universal Rubber Mats *for all* Cars

Made of high grade, black, non-blooming stock. Will not crack or break. Latest herringbone design. Easily fitted to any car, by using the old mat for a template. Made in two convenient sizes to fit all cars. Illustration shows Nos. 100 and 200.

VICTOR RUBBER Mats *for* FORD *and* CHEVROLET CARS



A complete line of superior quality replacement mats for all model Ford and Chevrolet cars. Made of live rubber—will not break or crack—long wearing—flexible—perfect fit—openings cut accurately—Latest herringbone design. Stock numbers plainly marked on each mat. Packed 12 mats to a shipping carton.

VICTOR RADIATOR HOSE

A complete line of radiator hose to fit all cars. Inner tube is extra quality rubber made to resist hot water. Extremely durable. Fabric is heavy weight Osnaburg 3-ply impregnated with high grade friction. Furnished in red cover. Calibrated to inches. Sizes ¾" to 1⅛" are made with 5/32" wall. All sizes above 1⅛" made with 3/16" wall.

THE VICTOR RUBBER CO.
SPRINGFIELD, OHIO

Digitized by Google

There's Profit for You in

KILLARK AUTO FUSES

They sell themselves

AUTOMOBILE fuses are a necessity on most makes of cars as a protection to the lighting system. Killark fuses give absolute protection, as they are carefully made and accurately rated. They have been on the market for more than fifteen years, and are nationally known, both to the trade and to car owners.

Free Counter Display

The attractive Killark counter display shown above sells fuses at sight. It contains an assortment of 100 fuses that meet 98% of your calls. These fuses cost you $2.50 and retail for $5.00 up—your profit, $2.50 or more. The counter display is free. When it becomes empty, order the suggested stock detailed below and continue to make your counter space profitable.

Suggested Stock Order

100—3A 20 ampere fuses
40—3A 15 " "
15—3A 10 " "
5—3A 5 " "

Net price of suggested stock $4.00 f.o.b. factory
Retail price of suggested stock $8.00 or more
Your profit on suggested stock $4.00 or more

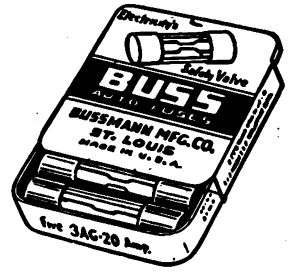
Order from your jobber or from the factory.

KILLARK

ELECTRIC MFG. CO.

3940 Easton Avenue

ST. LOUIS, MO.



It's just "good business" to sell Auto Fuses the BUSS way

DEALERS throughout the nation have been making sales and profits in fuses never dreamed possible before BUSS originated the idea of packing 5 super-quality fuses in a metal, slide-cover box—and furnishing a display stand to sell them.

Dealers, distributors, garage men and service attendants everywhere claim that the BUSS Plan is the greatest merchandising idea that ever hit the fuse market. Here's a quick picture of the Buss Plan:

Never any come-backs on BUSS Fuses

Each BUSS Fuse in manufacture is tested in an electric circuit in addition to tests for accuracy of dimensions, tight ferrules and clear glass. Compare BUSS with other fuses. Their appearance alone tells the story of unusual quality. Customers never complain that BUSS Fuses won't work properly. That's why it's just "good business" to supply them. Then too, there's the BUSS box—

A box that makes friends for you

Customers prefer BUSS Fuses because the BUSS slide-cover box never pops open and spills fuses, yet is easy to open even with cold or greasy fingers.

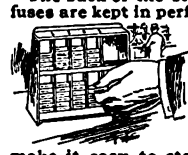
Also, they like the BUSS box because information on it tells what to do when a fuse blows. Many a motorist has been helped out of trouble by having these suggestions at hand when a fuse blows.

Selling the BUSS box of 5 fuses is a service to the customer and just "good business" for you.

A stand that sells for you

The BUSS Stand makes many a sale otherwise missed. The picture and story on the front cries out to everyone entering your store, "Don't forget auto fuses". It constantly reminds customers of their need for fuses.

The back of the stand provides a convenient space where fuses are kept in perfect order "at your finger tips"—each fuse size plainly visible in a separate section. No hunting around for the right box in the BUSS Stand. Stand occupies only 8½ inches of counter space, yet holds your entire stock of fuses.



It's easy to sell the BUSS way

The BUSS Display Stand Assortments make it easy to start getting profits from fuses the BUSS way. Two assortments are available. The No. 100 contains 100 fuses, costs $2.75. The No. 200 contains 200 fuses, costs $5.25. Fuses and stand come packed together ready to place on your counter. You more than double your money on the fuses and stand can be refilled and kept right on the job selling fuses. Order from your jobber or write us.

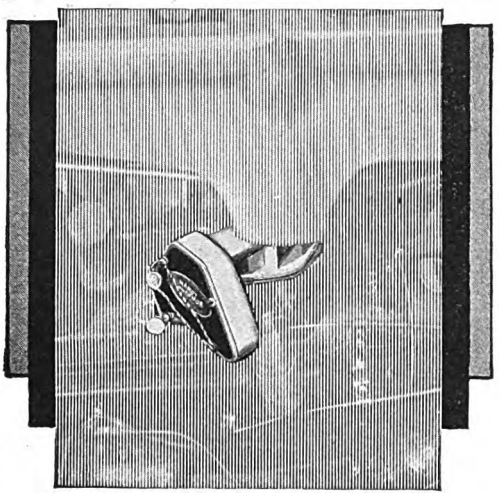
It's just good business to make more sales per day by using a BUSS Stand.

BUSSMANN MFG. COMPANY
University at Jefferson, St. Louis, Mo.

Division of McGraw Electric Corporation, Makers of BUSS Auto Fuses, Radio Fuses, Renewable Fuses and Plug Fuses.

Digitized by Google

over 500,000 Now in use



Engines and chassis of more than 500,000 trucks and delivery cars are today protected against damage from over-speeding by the automatic, velocity-type Handy Governor.

Manufacturers of fully equipped trucks —American and European—build the Handy into the motor at the parent plant. Fleet owners have learned to put no vehicle into service without this same Handy protection. Dealers everywhere recommend, sell and install it.

Such facts as these point straight to a definite conclusion.

It MUST PAY to govern with Handy.

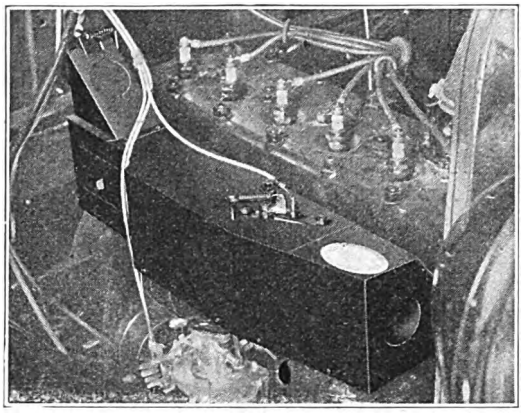
Advise your customers accordingly. Sell them more trucks as the result of their successful experience.

Install in a few minutes. Set to desired top speed and seal. The Handy will last for the life of the truck.

HANDY GOVERNOR CORPORATION
3936 West Fort Street Detroit, Michigan

HANDY GOVERNORS

FRANCISCO



More than ever . . .

America's Most Popular Car Heater

New improvements make Francisco the outstanding car heater value for the 1930-31 season. And with the certainty that this is a year of economical buying Francisco popular prices doubly insure a new peak volume in sales.

The dealer who does not consider Francisco before deciding on this season's heater line misses a real opportunity for greater volume and increased customer good will.

Now . . . *Top Efficiency—Greater Unit Profits—With New Motor Driven Fan Attachments*

New electric motor fan units give the Francisco top efficiency for driving conditions of any sort. In the form of attachments easily installed, they afford the car owner a range of prices to fit any purse—and the dealer a most satisfactory range of unit profits. Write for complete description today.

▲ ▲ ▲

More than ever . . .

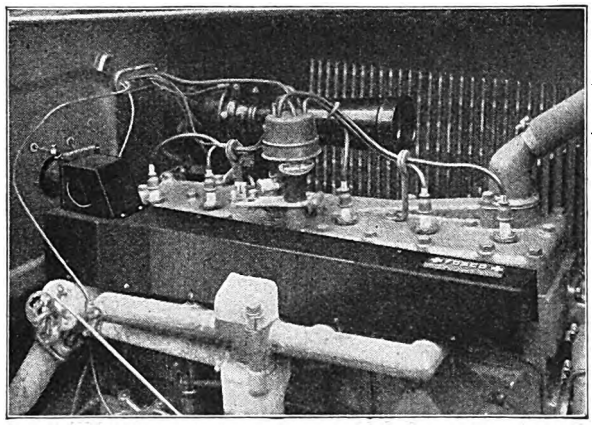
Guaranteed to deliver more heat than any other car heater regardless of price.

THE FRANCISCO AUTO HEATER CO.
Cleveland and Essex Aves.
COLUMBUS, OHIO

Digitized by Google

FOSCO

IMPROVED AUTOMOBILE HEATERS



A Complete Line of

MANIFOLD HEATERS
FORCED CIRCULATION HEATERS
SPECIAL CAST IRON HEATERS
FOR CHEVROLET SIX.
MUFFLER TYPE FOR FORD

PRICED FROM $3.50 to $10.00

EASE OF INSTALLATION

Because of special improved construction every FOSCO Heater installed, means a time saving in installation to the Dealer and a time saving to the owner.
When the owner drives into a Service Station he has only a short time to wait until his FOSCO Heater is installed and he is ready to drive away.

QUICK HEATING

Because of special construction the FOSCO Heaters deliver hot air quickly after the motor is started and maintain a continuous, uniform heat, even in the coldest weather.

FEWER MODELS REQUIRED

With the FOSCO Line a smaller number of models is required to fit all makes of cars.

MOTOR DRIVEN FAN

Every FOSCO Heater may be equipped with an electric motor driven fan unit.

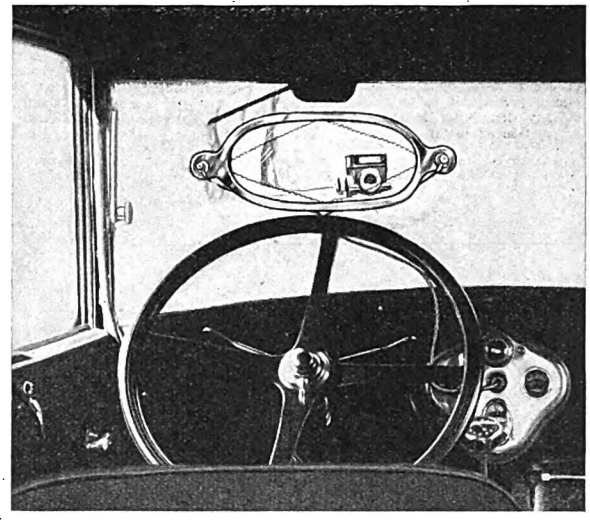
F. O. SCHOEDINGER

MANUFACTURER
322-358 Mt. Vernon Avenue
COLUMBUS OHIO

QUICK-SELLING PROFIT-MAKING

OVLEYE SLEET CHASER

Two years of actual operation on all makes of cars have proved this the most efficient, dependable sleet, snow and frost chaser on the market today. Notice the wide range of vision, see how windshield is kept clean and clear even in the worst storms. It cannot crack or injure windshield in any way when properly connected. No drilling—easily and quickly installed.



Standard Type retails at $3.50. Bus type, $6.00—a good profitable item for you. Advertising helps furnished Free.

WIN-BRAX

Wind Deflectors

A high-grade wind-deflector that will fit any car. Made of heavy plate glass with chrome-plated fittings. Last word in style, dash and practicability. Enhances beauty of car—adds real driving comfort. Retails at $9.00 with good profit margin.

HNDYPAC Motor Pocket Cigarette Case—A sturdy, convenient novelty that will sell quickly with good profits for you. Free display material furnished.

These quick selling, profit making auto necessities are attractive, convenient and sturdily built. Advertising helps, furnished Free, assure you many sales. Ask your jobber or write direct for complete details.

Reliance Specialty Co., Inc.

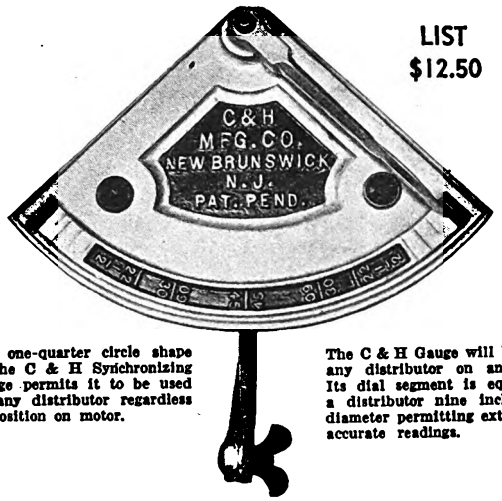
HOLYOKE MASS.

Manufacturers of OVLEYE—WIN-BRAX—HNDYPAC, etc.

Digitized by Google

C & H SYNCHRONIZING GAUGE

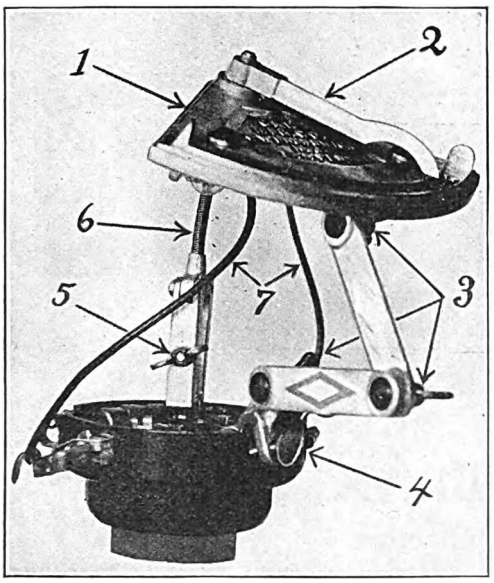
Your ignition man needs this gauge to tune all motors with double breaker points.



LIST
$12.50

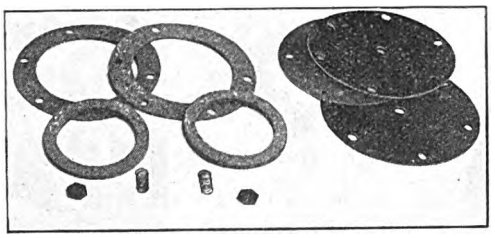
The one-quarter circle shape of the C & H Synchronizing Gauge permits it to be used on any distributor regardless of position on motor.

The C & H Gauge will handle any distributor on any car. Its dial segment is equal to a distributor nine inches in diameter permitting extremely accurate readings.



1. Dial, Calibrated in degrees.
2. Indicating arm.
3. Wing nuts to hold adjustable arm.
4. Adj. arm clamp.
5. Distributor cam clamp.
6. Flexible shaft.
7. Signal Lamp leads.

YOU NEED this instrument to do the job right. Order one today. Write for Ignition Synchronizing booklet.



C & H FUEL PUMP REPAIR KIT consists of 10 complete sets of Super Diaphragms. 2 valve springs. 2 valves. 2 Diaphragm gaskets. 2 Strainer bowl gaskets.

Each set of Super Diaphragms neatly packed in a separate glassine envelope. 10 complete sets in a package. 90% of Fuel Pump trouble is worn out or defective diaphragms. A half hour's work and a few cents material give you a liberal profit job and a satisfied customer. Price Complete $2.50.

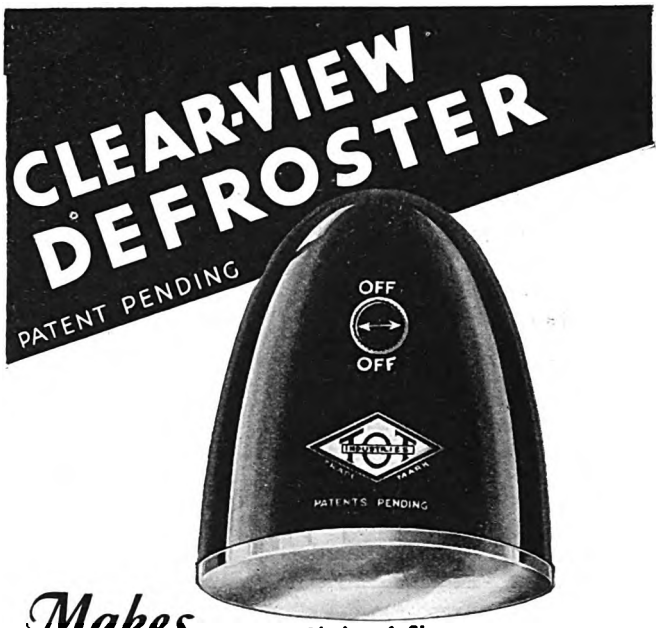
Manufactured by

C & H MANUFACTURING CO.

NEW BRUNSWICK, N. J.

TOT DEFROSTER

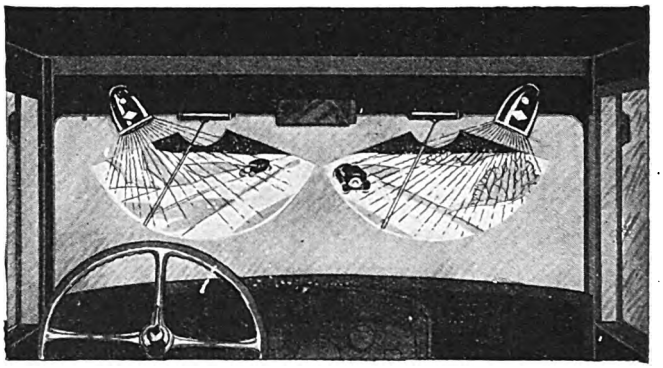
Keeps the windshield free of Sleet, Snow, Fog and Mist with its INFRA-RED Rays



¾ Actual Size

Makes

WINTER DRIVING *a PLEASURE*



TOT DEFROSTER removes sleet, snow and ice from windshields; also fog or condensation from the inside making it a year around item. This small model for any type of car or windshield. You can sell this neat, compact and efficient Defroster.

The same rays from the sun that warm you, but leave a window pane cold are made use of in the Tot Defroster. Infra-Red rays, pass through air and glass with very little loss of power, but give out heat when striking an obstruction such as snow, ice or sleet, melting it so the windshield wiper can work efficiently. Operation is instant and absolutely silent. Nothing to get out of order. Never in the way.

Uses about the same amount of current as your head lamps. Screw in place on header bar above windshield, connect wire to electrical circuit and TOT DEFROSTER is installed permanently. Out of line of vision. Not a lamp—it utilizes principally the invisible rays and will not crack or discolor glass under any conditions. Get lined up on this safety necessity now. Good Winter and Spring seller. Retails at $2.50 to give you fast-moving business.

TOT INDUSTRIES OF DETROIT

2270 FIRST NAT'L BANK BLDG. DETROIT, MICH.

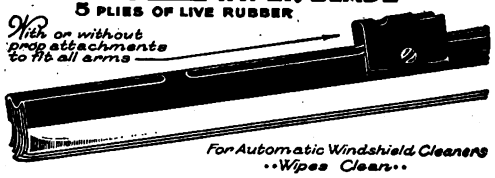
Digitized by Google

HACKETT ..Products..

UNIVERSAL LICENSE PLATE FRAME
CHROMIUM PLATED

An added attraction to the appearance of any car. It is non-corrosive, readily clamps to all size plates. Display material furnished.

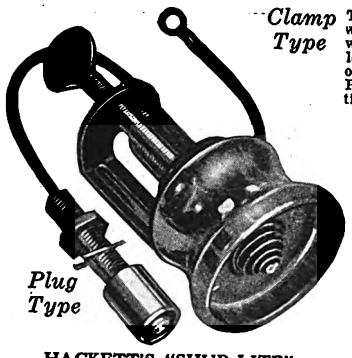
HACKETT DE-LUXE WIPER BLADE
5 PLIES OF LIVE RUBBER



HACKETT'S MULTI-PLY WIPER BLADES
MADE IN 4 AND 5 PLIES

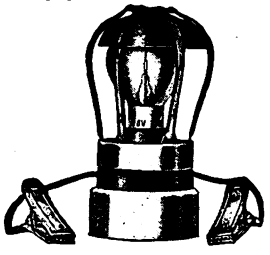
Clamp Type

The latest thing in wiper blades with live rubber that cannot scratch windshield. Made in three standard lengths 7¾", 8" and 9" long, with or without prop attachment. Packed 25 in box or 18 on attractive display card.



Plug Type

HACKETT'S "SHUR-LITE"
The only lighter made that will readily light a pipe. No cords to pull or break. Made in plug or clamp types. In Walnut, Mahogany, Green and Blue.



HACKETT'S MAGNETIC TROUBLE LIGHT
An excellent emergency light. Attaches itself to any metallic surface reflector makes it an ideal tail light, and is unaffected by vibration. Red Complete with 21 C.P. bulb 12 ft. cord with clips.
Packed in individual metal container.

By Installing One On Your Car Gives Double Vision & And Makes Driving Safe

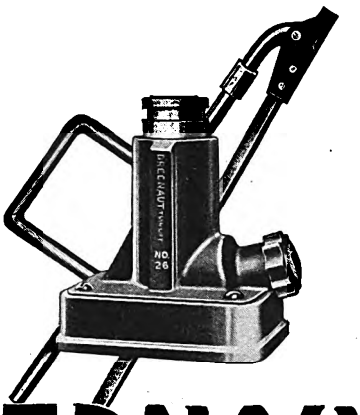
HACKETT'S UNIVERSAL DUAL WINDSHIELD WIPER
A recognized necessity to lessen the hazards of stormy weather motoring. Attaches to any wiper arm and is easily installed. It is finished in black enamel with Multi-Ply blade.

OTHER HACKETT PRODUCTS

Assorted wiper arms.
Combination Wipers.
Horn buttons for Chevrolet, Essex and Model T Fords.
Steady Boys Shimmy Stops.

HACKETT PRODUCTS CO., Inc.
407 Pine Street, Providence, R. I.

The



DREDNAUT Balloon Tire Jack

Standard Equipment on majority of American motor cars. Low stand height with exceptionally long lifting range. Easily operated with long folding auger type handle.

Write for catalog showing complete line of passenger car and truck jacks of various types and prices.

Auto Specialties Manufacturing Company

"Serving the Entire Automotive Industry"

St. Joseph, Mich. Windsor, Ont.

Malleable Iron Castings

Rough or Machined Assembled or Finished

Many years of service in supplying the automotive industry with malleable iron castings have made our plants extraordinarily resourceful. Constant improvements in equipment and manufacturing processes are developed to care for the ever increasing foundry demands.

High grade raw materials and correct annealing practice insure uniformity, highest quality and ideal machineability.

Digitized by Google

THE ARISTOCRAT

LICENSE PLATE

FRAME and HOLDER

The Aristocrat License Plate Frame and Holder is a real protector of license plates. They are not only *frames,* but *holders* as well. They beautify and add to the smartness of any car.

Made of a one piece casting, heavily coated with a high lustre chromium plate finish, they harmonize well with the other chromium finished parts of the car. THEY CANNOT RUST! With them, all license plate bending, and breaking is eliminated. The Aristocrat is made to fit all size license plates on all cars. Furnished with or without jewels. List price $3.50 per set (jewels extra). Handled by jobbers everywhere. If your jobber cannot supply you, write direct.

We also manufacture all kinds of die castings and Permanent Mold castings. Quotations gladly furnished from blue-prints or samples.

FRANKLIN DIE CASTING CORP.
Syracuse, New York

The BUELL TROMBONE HORN

Compels Attention!

THE BUELL TROMBONE HORN is an air horn matching the modern car in smart appearance and efficiency. A pleasing tone has been a major object in developing this horn. High speed on the highways today makes this new powerful signal an absolute necessity for safety. It does not interfere with the use of the regular electrical horn. Finger-tip control enables sounding a pleasant salute or an attention compelling command.

A small pressure tank (6" x 6") is mounted on the dash under hood and connected with the engine through suitable check valves and filter. The horn is blown from the tank; not directly from the motor, and so little pressure is taken that it does not interfere with the operation of the engine. When the tank pressure equals the cylinder pressure, the valves become inoperative and no more pressure is taken from the explosion until after the horn is sounded. Then the pressure builds up to a balance point as before.

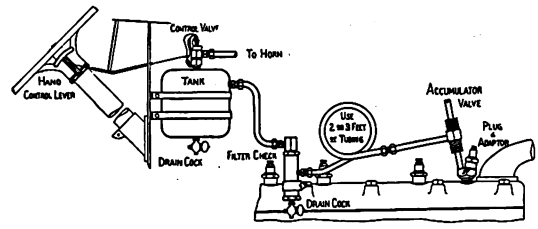
The following horns come complete with a pressure tank and brackets, copper tubing, the necessary Accumulator, Filter-Check and Control Valves.

Model 22—Chime Trombone, Chrome, less adaptor and plug.....$55.00
Model 21—Chime Trombone, Polished Brass, less adaptor and plug 47.00
Model 12—Single Trombone, Chrome, less adaptor and plug..... 40.00
Model 11—Single Trombone, Polished Brass, less adaptor and plug 36.00
Model 62—Motor Boat Chime (deep note), Chrome, less adaptor and plug..... 70.00

Additional motor boat models and horns for installation on vehicles equipped with air brakes are available and will be quoted on request. All prices slightly higher Denver and West Coast.

NOTE: If your car has no timing check or priming cup openings a Spark Plug Adaptor and Midget Spark Plug are required and extra. Furnished in two sizes for replacing ⅞" or metric plugs.

Type SAM—⅞" Adaptor and special plug $1.90
Type MAM—Metric Adaptor and special plug..... 1.90



PRINCIPAL DISTRIBUTORS

City, State	Name	Address
Atlanta, Ga.	Walker & Barnwell, Inc.	239 Peachtree St.
Baltimore, Md.	Ditch Bower & Taylor, Inc.	1340 N. Charles St.
Birmingham, Ala.	Birmingham Elec. Bat. Co.	23rd & Av. B
Boston, Mass.	Jackson Elec. Co.	124 Brookline Ave.
Bridgeport, Conn.	Reuter Auto Elec. Co.	470 West Av.
Buffalo, N. Y.	Battery & Starter Co.	885 Main St.
Cincinnati, Ohio	Tri-State Ignition Corp.	212 E. Eighth St.
Cleveland, Ohio	Bruening Autoglass Co.	1783 East 21st St.
Columbus, Ohio	Columbus Ignition Co.	82 S. Fifth St.
Dallas, Texas	J. J. Gibson Co.	2016 Canton St.
Des Moines, Iowa	Central Auto Supply Co.	12th & Mulberry St.
Detroit, Mich.	Geo. F. Balk Sales Co.	129 Selden Av.
Ft. Wayne, Ind.	R. M. Kaough Co.	224 W. Main St.
Grand Rapids, Mich.	Elec. Service Station	53 Commerce St., S.W.
Harrisburg, Pa.	Penn. Elec. Sales Co.	236 S. Cameron St.
Indianapolis, Ind.	The Gibson Co.	433 N. Capitol Av.
Louisville, Ky.	Koch Auto Elec. Co.	439 E. Broadway
Memphis, Tenn.	Auto Trunk Co.	615 Monroe
Miami, Fla.	Bermer-Pease Co.	N. E. 2nd Avenue at 20th
Milwaukee, Wis.	Lemke Elec. Co.	141 Eighth St.
Milwaukee, Wis.	Shadbolt & Boyd	129 W. Water St.
Minneapolis, Minn.	Reinhard Bros.	11 South 9th St.
New Haven, Conn.	C. S. Mersick Co.	278 State St.
New York, N. Y.	Martin Automotive Corp.	161 W. 64th St.
N. Bergen, N. J.	John W. Hoehn	709 Hoyer
Oklahoma City, Okla.	Avon Supply Co.	102 West 3rd St.
Philadelphia, Pa.	J. H. McCullough & Son	1248 N. Broad St.
Pittsburgh, Pa.	Keelan-Lyons Co., Inc.	451 Melwood Av.
Providence, R. I.	W. R. Burns Co.	45 Broadway
Rochester, N. Y.	C. L. Hartmann Corp.	18 Union St., N.
St. Louis, Mo.	Automotive Elec. Co.	2129 Locust Blvd.
Springfield, Mass.	R. S. Graves	147 Chestnut St.
Washington, D. C.	Creel Brothers	1811-14th St., N.W.

BUELL MANUFACTURING CO.
2985 Cottage Grove Ave. Chicago, Ill.
For 15 years Manufacturers of Buell Whistles

Digitized by Google

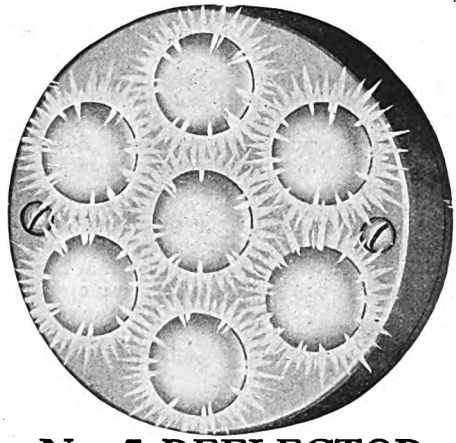
Automotive Equipment of Unique Character

PERSONS

SIROLECTIC HORN

FOR COUNTRY USE ON CARS
BEAUTIFULLY BUILT MODERATELY PRICED

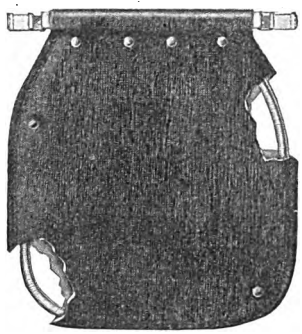
PERSONS



No. 7 REFLECTOR

WITH UNBREAKABLE LENS 1" THICK
LIST PRICE $3.00
(Also Safety Reflectors for Attaching to Vehicle)

PERSONS



FENDER SPLASH GUARDS

SET THE FASHION FOR THE WORLD

Concealed Spiral Spring Border; Double Thickness Waterproofed Canvas; Adjustable Brackets
List per pair $1.50

License Plate Holders. Rubber Shock Absorbers for Tilting Seat Legs. Rear Vision Mirrors, Jewels, Radiator Wind Screens, Safety Reflectors (for Road use), Safety Reflectors (for attaching to cars).

Send for Catalogue

PERSONS-MAJESTIC MFG. CO.
ESTABLISHED 1892 WORCESTER, MASS.

SCHWARZE

HORNS

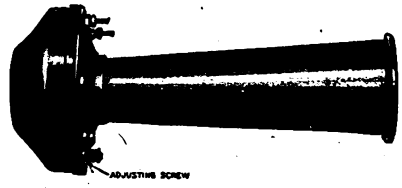
for Cars, Trucks, Busses, Motor Boats, Motorcycles and all industrial purposes

LIST PRICES $2.50 and higher
offering unbeatable values to consumers, quick, generous profits to the trade

16 MODELS

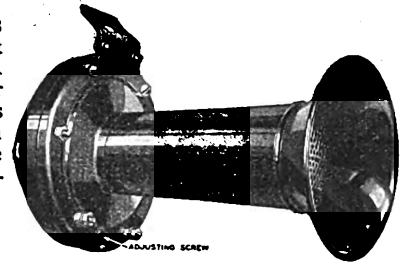
magnetic — vibrator — motor driven
6 or 12 volts

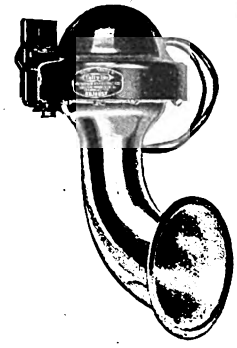
TROPHY—Model No. 80 a luxury horn at a moderate price—for "up front" mounting—complete with armored cable and universal brackets.



Famous "44" for "under hood" mounting—a low priced, high value, volume stimulator—popular from Coast to Coast.

Model No. 440 series—the replacement horn for Model A Fords—in black or chromium—replaces standard horn in a jiffy—takes same bracket and cable—a money-maker.





The TALLY-HO — Model No. 79 high frequency BUS horn—polished cast aluminum projector—choice of red or black baked enamel cap—complete with universal bracket and armored, weather-proof cable—exceptional value for the money—equipped with front, outside tone control—a Schwarze feature.

INDIVIDUAL DEMONSTRTATING STANDS EQUIPPED WITH HORN BUTTONS FOR ALL MODELS—REAL SALES BOOSTERS
HORN BUTTONS BUS-TRUCK LIGHTS
TAIL LAMPS

Send for complete, illustrated catalog sheets *and* Self-Demonstration Offer

Write Dept. 3

SCHWARZE ELECTRIC COMPANY
Established 1904
ADRIAN, MICHIGAN, U. S. A.

Digitized by Google

TWIN-TUNED HORNS

A new "note" of smartness

A NEW idea that has "taken hold". Sell two horns instead of one. These "Twins" blend beautifully into the lines of a car, and their notes blend into a sound so distinctive that everybody wants them. The idea is new but spreading like wildfire. Be prepared. Consult your Sparton distributor.

THE SPARKS-WITHINGTON CO.
JACKSON, MICH., U. S. A.
Also makers of Sparton Radio Receivers

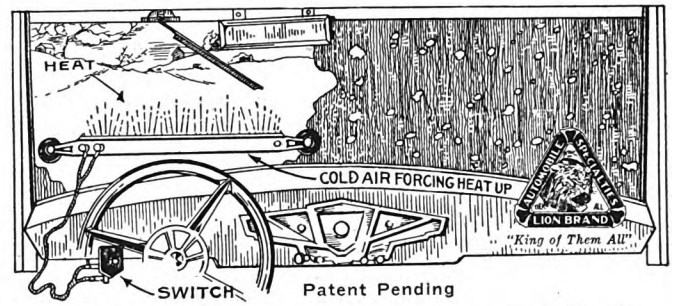
Sparton horns

(516)

SLEET-SKAT

A FAST-MOVING WINTER NECESSITY AT A LOW PRICE

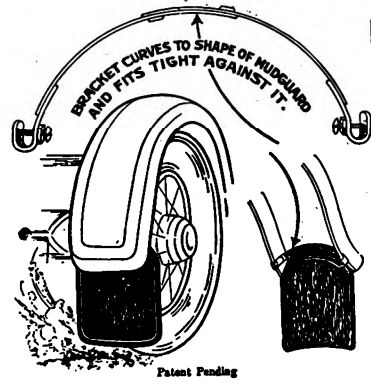
THE LION SLEET CHALLENGER KEEPS WINDSHIELDS CLEAN ON STORMY WINTER DAYS AND MAKES DRIVING SAFE . . . .



Patent Pending

Lion Sleet-Skat keeps the temperature of windshield above freezing point, making it impossible for sleet, frost, or wet snow to stick to the outside of windshield. *Lion Sleet-Skat does not obstruct the driver's vision.* Takes up very little space as it is very narrow. Neat in appearance and light in weight. Will not drain battery. *Furnished with leatherette case to hold heating unit when not in use.*

At the low retail price of $3.00 the Lion Sleet-Skat is a fast-moving necessity. Here's an opportunity to outsmart competition with a sleet chaser that has unusual advantages and at a price that sells the motorist.



Patent Pending

LION SPLASH FLAP

The exclusive features of the LION SPLASH FLAP make it possible for one size to fit any mudguard.

The bracket is adjustable to size, and also flexible. It shapes itself to conform with the shape of the mudguard and stops mud and oil from splashing through.

The flap itself is made of the highest grade gloss finish leatherette. It is very durable and can be washed.

No holes to drill. Quickly and easily attached.

LION

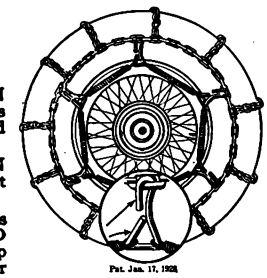
DeLuxe Chain Equalizer

THE CHAIN EQUALIZER WITH THE DOUBLE FEATURE HOOK

LION *DeLuxe* SIXPOINT CHAIN EQUALIZER will fit all wheels, and is especially designed to fit wire wheels and wheels with large hub caps.

Unlike other chain equalizers, LION *DeLuxe* CHAIN EQUALIZER will not scratch or rub against the wheel.

LION *DeLuxe* CHAIN EQUALIZER has an elongated, specially formed PATENTED hook that holds the chain with a firm grip and prevents it from striking fender or falling off.



Pat. Jan. 17, 1928

Signal Mfg. Company, Inc.

Lynn, Mass.

Mfrs. of Lion 5 ply Windshield Wiper Blade.

Lion Self Locking Chain Repair Links and Lion Glare Shield.

AUTOMOBILE SPECIALTIES
LION BRAND

Digitized by Google

THE LIGHTNIN LINE

AUTOMOTIVE PRODUCTS

All of the items in the R. J. Loock & Company's line of Automotive Products are fast selling numbers. Every one is a big seller because Loock Products are manufactured to fill a definite need. There is a real need and a wide demand for these automotive necessities and they're priced right to give you a liberal profit.

Self-Closing Chain Repair Links. 10 links to box. Retail 25c. 24 boxes to counter display carton.

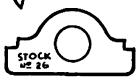
LIGHTNIN Automotive Spring Assortment. General repair and ignition springs.

"LIGHTNIN" Self-Closing Repair Link.

Battery Filler. Fits on any bottle. 12 to display card.

LIGHTNIN Radiator Cleaner. Fast seller—good profit. Retails $1.00.

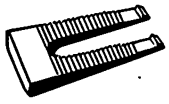
Lead Battery Post Shims. 24 Shims to box. 40 cents.



Model "A" and "T" Ford Connecting Rod Shims.

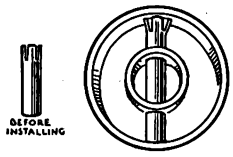
Ford Carburetor Choke Repair Spring. Fits Holly Hot Spot, Kingston. Retail 25c. 50 to a card.

Axle Shims for Ford, Chevrolet and light cars and trucks.



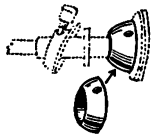
Anti-Shimmy Wedges. Slotted. Retail 25c.

Ford Carburetor Choke Repair Spring. Fits Holly and Kingston except Hot Spot. Retail 25c. 50 to card.



Model "T" Ford Fan Pulley Pin. Installed without removing Radiator. Retails 25c.

Model "A" Ford Carburetor Choke Spring, anti-rattler, choke rod holder. Retail 25c. 50 to board.

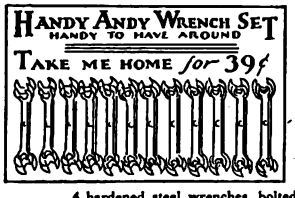


Model "T" Ford Drive Shaft Universal Ball Joint Shim. Stops rear-wheel chatter. Retails 50c.

Model "T" Ford Switch Key. 72 keys on metal display board.

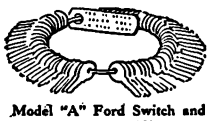
No. 2 Ignition Wrench Kit. Complete kit 20 Tools for Ignition Mechanic.

Model "T" Ford Master Switch Keys Operate all starter switches.



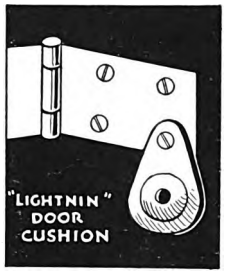
4 hardened steel wrenches, bolted together. 12 sets on display board. Set of 4—39c.

Model "T" Ford Coupe and Roadster Deck Lock Keys.



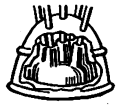
Model "A" Ford Switch and Door Keys. Set 250 keys.

LIGHTNIN Gear Shift Lever Ball. Genuine Bakelite in ivory, green, tan and orange. 12 on display card. Fits 90% of cars. Retails 50c.



Universal Size—fits all cars. High grade rubber. Packed 25 and 50 on 4 color Display Cards. Retails 10c.

Rear Axle Grease Retainers for Chevrolet and Model A Ford cars and trucks. Stops grease leaks. Made of leather.



Rubber Distributor Protectors. For all cars.

Rubber Distributor and Coil Protector Nipples.

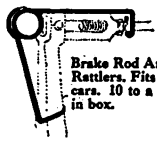
Rubber Spark Plug Umbrella.

No. 30 Piston Ring Expander. 12 to box. Retails 20c.

No. 33 Piston Ring Expanders. 12 to box. 20c.

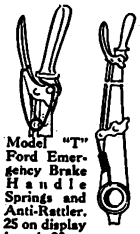
No. 36 Piston Ring Expanders. 12 to box. 20c.

No. 37 Piston Ring Expanders. With oil drain holes. 12 to box. 20c.

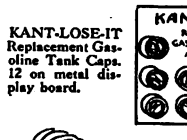


Brake Rod Anti-Rattlers. Fits all cars. 10 to a set in box.

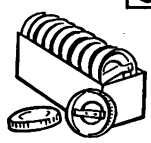
LIGHTNIN Shimmy Stop and Anti-Rattler. Universal size. 1 pr. to box. Pair $.75.



Model "T" Ford Emergency Brake Handle Springs and Anti-Rattler. 25 on display board, 25c.



KANT-LOSE-IT Replacement Gasoline Tank Caps. 12 on metal display board.



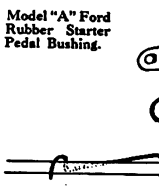
Replacement Gasoline Tank Caps. Aluminum Plate. 10 caps to box. Retail 25c.

Gear Shift Grease and Oil Protectors. Fits on all gear shift levers.

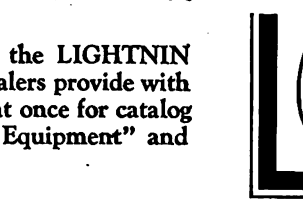
Chevrolet Hub Cap and Water Pump Wrench. Retails 60c.

Model "A" Ford Rubber Hood Clamp Bumper and Anti-Rattler.

Chevrolet and "A" Ford Water Pump Nut Wrench. Retails 40c.



Model "A" Ford Rubber Starter Pedal Bushing.



Model "A" Ford Brake Rod Support and Anti-Rattler.

Tire Inspector. Small size, $1.50. Large size $3.50.

Leading Automotive Jobbers are handling the LIGHTNIN LINE OF PRODUCTS. Necessities that dealers provide with a liberal profit on their investment. Write at once for catalog on the "LIGHTNIN Line of Automobile Equipment" and discount schedule.

Tire Inspector. All tires up to 4.75 Balloon $1.50.

R. J. LOOCK & COMPANY

343-45 North Gay Street Baltimore, Md.

Digitized by Google

THE HIGHEST AUTHORITIES RECOMMEND

OPCO

THE INDESTRUCTIBLE UPPER CYLINDER LUBRICANT

Comments on OPCO

Increases power and efficiency at once.
—Glenn H. Curtiss.

We have arranged with the manufacturers to pack it in special cans bearing our name.
—Franklin Automobile Co., Syracuse, N. Y.

After completing tests on various valve lubricators and lubricants of modern development, we have adopted the Opco Products.
—Hupp Motor Car Corp., Detroit, Mich.

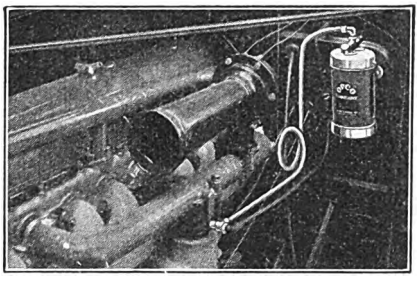
We have found that Opco will prevent sticky valves and carbonization.
—Velie Motor Corp., Moline, Ill.

We recommend the use of Opco to all owners of Buick cars.—P. R. Keating, Manager.
—C. L. Whiting, Inc. (Buick), Rochester, N. Y.

After a careful and exacting test of Opco we highly recommend its use for all Hudson-Essex cars.
—Hudson-Oliver Motor Co., Buffalo, N. Y. (Hudson-Essex)

We find that it fulfills all claims.
—International Harvester Company of America.

We propose to merchandise these through our various depots. —Rolls Royce of America.



The OPCO LUBRICATOR is handsomely finished in lacquer and aluminum. It is equipped with a combination choke and slow-feed valve and with a dash control unit for operation of the choke from the driver's seat. The package contains fittings, tubing and a quart can of Opco.

$5.00

OPCO COMPANY, INC.

1894 Niagara Street, Buffalo, N. Y., U. S. A.

For Export
GENERAL EXPORT CORP.
Stephenson B'dg., Detroit, Mich., U. S. A.

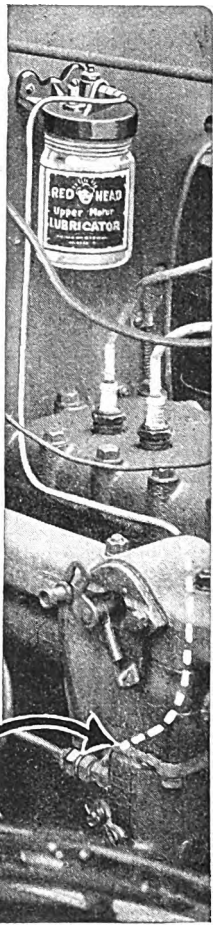
RED HEAD
UPPER MOTOR LUBRICATOR

Eliminates Carbon-- Saves Gasoline -- Lubricates

Top Motor Lubrication is now an accepted necessity and is recommended by leading automotive Engineers.

The Red Head Line is complete, popularly priced and includes sight-feed and Dash Control flood valve operating independently of needle adjustment.

All Red Head Units are easily and quickly installed.



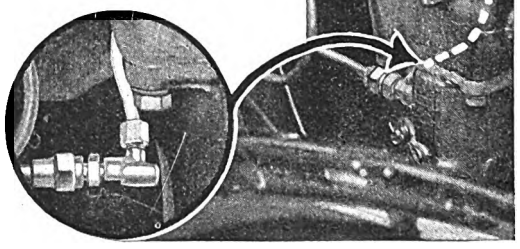
4 MODELS

No. 3 Complete—List Price..... Pint of lubricant and 8 oz. removable glass reservoir.	$2.50
Junior Complete—List Price..... Pint of lubricant and 8 oz. sealed glass reservoir.	$3.50
Senior Complete—List Price.... Quart of lubricant, Sight-feed and Dash Control Flood Valve. 16 oz. sealed glass reservoir.	$5.00
Can Type—List Price ..... (Fits any cone top can) Complete with pint of lubricant.	$2.00

All Models include fittings, tubing and bolts.

Sight Feed for attaching to any model 75c.

Red Head Upper Motor Lubricant supplied separately as follows:—Pint, 60c; Quart, $1.00; Gallon, $3.25; 5 Gallon, $15.00.

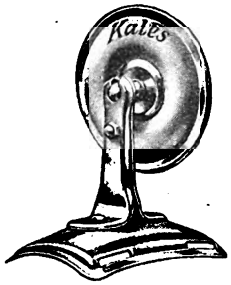


RED HEAD MFG. CO.

1983 East 57th Street **CLEVELAND, OHIO**

Digitized by Google

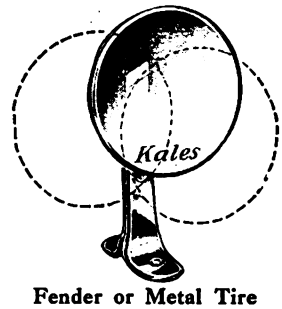
Kales Hindview Mirrors



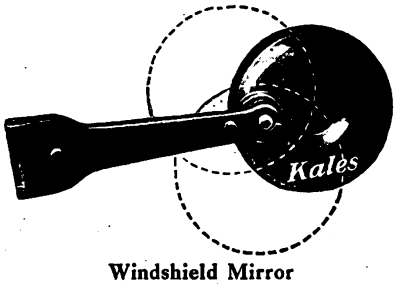
Spare Tire Mirror

Are of selected plate glass, highly polished and silvered with waterproofed backing. Practically designed and carefully engineered they combine quality, appearance and utility.

Brackets are sturdy holding the mirror in adjustment. Rigid spring tension socket and ball joint permits easy adjustment. All round mirrors are interchangeable with all brackets and are stocked separately.



Fender or Metal Tire Cover Mirror



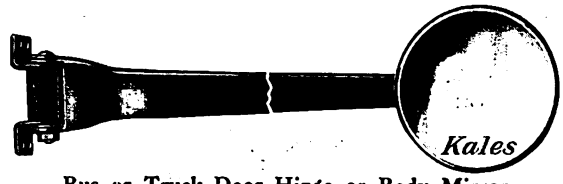
Windshield Mirror 8" bracket

Auxiliary bracket for closed body

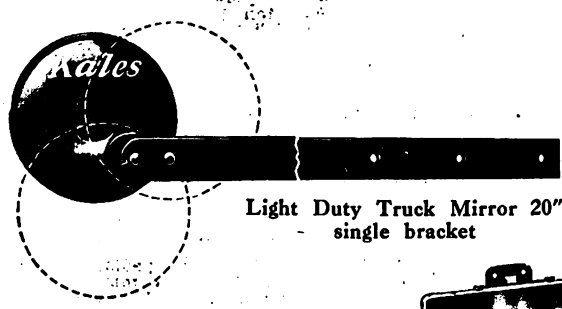
Windshield Mirror 10½" bracket

Auxiliary bracket for door hinge mirror

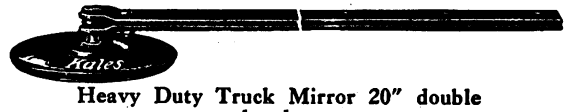
Door Hinge Mirror 5½" bracket



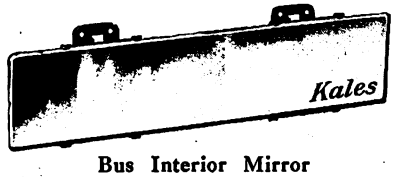
Bus or Truck Door Hinge or Body Mirror 14" bracket



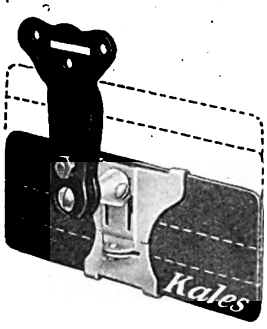
Light Duty Truck Mirror 20" single bracket



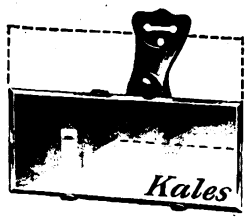
Heavy Duty Truck Mirror 20" double bracket



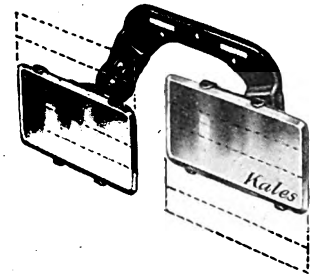
Bus Interior Mirror 16" x 4" mirror



Adjustable ball interior mirror



Offset ball interior mirror



Adjustable ball double mirror

Send for literature, prices and discounts

Kales Stamping Company

Manufacturers of S. A. E. Standard Plain Steel Washers

1669 West Lafayette Blvd., Detroit

Digitized by Google

Protect Your Stock and Your Customers Cars with

KENNEDY KRAFT PAPER AUTO COVERS

These paper covers furnish efficient, inexpensive protection to the finish of cars from damage by dust and dirt during the storage period.

To Garage and Repairmen—

You can sell these covers to customers who garage their cars with you, or have their private garage. Enveloped in a Kennedy Cover his car is safely guarded against destructive dust and dirt.

To the Auto Dealer and Distributor—

In addition to retailing these covers to your customers, use them to protect your own stock of cars. Covers are easily applied—simply slip over the car. Full instructions with each cover.

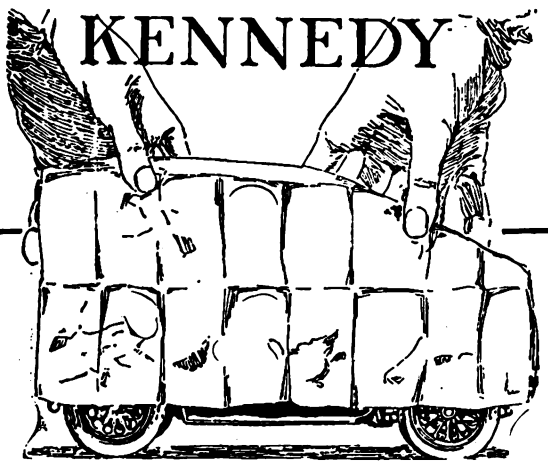
Made in standard models to fit all cars. Your jobber handles them. If not, write us direct.

TO THE AUTO MANUFACTURER. We design special trim covers and top covers for cloth jobs, as well as case liners for export shipments. These are tailor made to meet each manufacturer's peculiar requirements. Made from material best adapted for this class of protection. Inquiries invited for samples: no charge.

THE KENNEDY CAR LINER & BAG CO.

Shelbyville, Indiana

Canadian Plant at Woodstock, Ont.



More MONEY on "TRADE-INS"

USED cars taken in trade MUST be sold! Otherwise the inventory piles up. When too much is allowed—it makes re-sale difficult—and it cuts NEW CAR profits! Every dealer OUGHT to at least BREAK EVEN on his USED CARS. He can do it by following the BASIC CASH QUOTATIONS in the National Used Car Market Reports—

BLUE BOOK — RED BOOK — TRUCK RED BOOK

For 20 Years—"The Nation's Standard of Used Car Values."

1. Positive identification.
2. Exact "age".
3. Actual market value.
4. Complete—authentic—practical.
5. Speeds new car sales.

THE MASTER BLUE BOOK

For Office and Showroom

Size 9 x 12 Inches. Costs 3 1/3c a day—$12 yearly—4 new books a year—a new one every 90 days.

GIVES both selling prices and spot cash appraisal prices in your community, ADJACENT districts, as well as throughout the U. S. on over 5,000 models of used cars —1920 to date. Factory prices, complete specifications, certified serial numbers, exhaustive "Characteristics" Supplement with 232 identifying illustrations. Safe allowances —and effective "trading" and "closing" information—4 Master Blue Books—a new one every 90 days—$12 yearly by subscription.

THE POCKET RED BOOK

For Salesmen to Carry

Size 3¼ x 5¼ Inches. Only 1 2/3c a day —$6 yearly—4 new books a year—a new one every 90 days.

HANDY — practical — indispensable — gives complete used car identifying data, market prices, the same as the Master Blue Book—National Average Appraisals on over 5,000 models back ten years. New car selling aids—table of list prices and comparative specifications—means more sales, bigger earnings. Salesmen do not make final appraisals, they merely pave the way so that prospect will quickly accept final appraisal when he arrives at the showroom. Helps close the deal. Four new Books a year—a new Pocket Red Book every 90 days—$6 yearly by annual subscription.

THE TRUCK RED BOOK

Size 3¼ x 5¼ Inches. Only 1 2/3c a day —$6 yearly—2 new books a year—a new one every six months.

A RELIABLE Encyclopedia. Heavy-duty trucks and light commercial cars of the leading makes—4,775 models, 1923 to date. Identifying data, mechanical specifications; where to find quickly serial and motor numbers. Year, capacity, model, tires, motor, cylinders, bore, stroke, horse power, axles, drive, transmission, clutch. Tells the "age" and market value of any used truck offered in trade. Convinces customer your allowance is fair. Speeds up closing. Two new Truck Red Books a year—a new one every 6 months—by subscription only $6 a year.

SPECIAL FREE OFFER: Send now for the Books you need. Order plenty of them! Equip office and showroom with the Master Blue Book—and each salesman with the Pocket Red Book. "News Bulletins" and "Blue Stickers" included free with every Blue Book or Red Book Subscription. Give model and price changes as they occur with revised appraisals on older models with latest news of the industry. Your Books are kept up-to-date. At the same time, order the Truck Red Book for your truck salesmen. Means more sales—more profits—more earnings. Order now!

Blue Books, Red Books, or Truck Books, can be bought and used separately.

CLIP AND MAIL THIS HANDY COUPON

NATIONAL USED CAR MARKET REPORT, INC., **Send Today!**
1315 S. Michigan Ave., Chicago

Gentlemen:—Enter our order for the following Service:

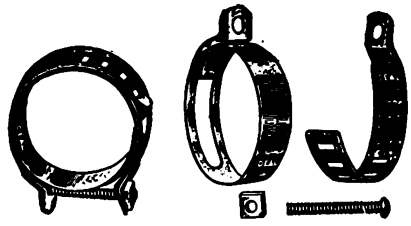
☐ BLUE BOOK Subscriptions Number Wanted .....
☐ RED BOOK Subscriptions Number Wanted .....
☐ TRUCK RED BOOK Subscriptions Number Wanted .....
☐ Check enclosed herewith.
☐ Ship to us C.O.D.

Firm .....
By ..... Title .....
St. & No. .....
City & State ..... Cars Handled.....
(Blue Book $12 yearly; Red Book $6 yearly; Truck Red Book $6 yearly.)

Digitized by Google

IDEAL

HOSE CLAMPS

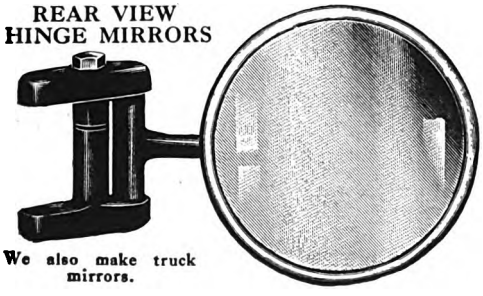


"The Clamp Lindbergh used"

FITZALL HOSE CLAMPS

"In handy Cartons of 10"

REAR VIEW
HINGE MIRRORS

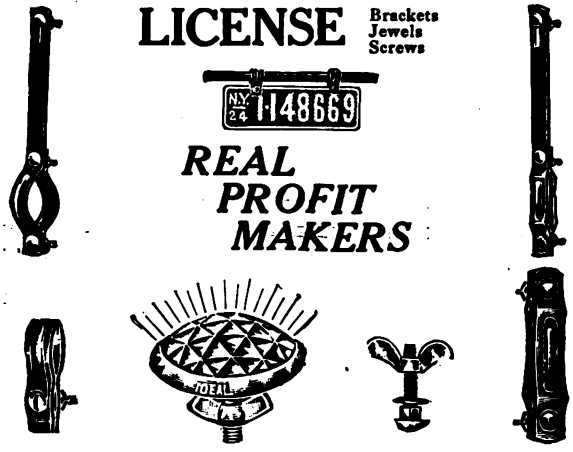


We also make truck mirrors.

LICENSE

Brackets
Jewels
Screws

REAL PROFIT MAKERS



OTHER PRODUCTS

Tail Lamps	Terminals
Valve Lifters	Ground Clamps
Pump Hose Bands	Tire Pumps
Coupling Clamps	Car Washers
Push Buttons	Cable Clamps

IDEAL CLAMP MFG. CO. INC
200 BRADFORD ST. BROOKLYN, N.Y.

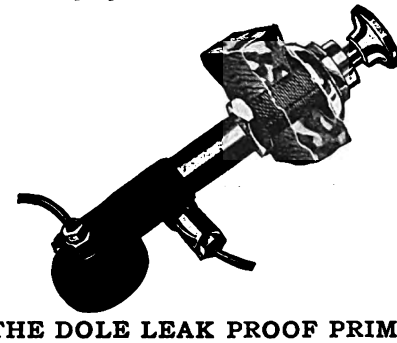
Dole PRODUCTS

DOLE DRAFT DEFLECTORS

Frequently ventilation in closed cars is sacrificed for immediate comfort; windows are closed. Result—headaches, danger from poor vision and not hearing and giving signals.

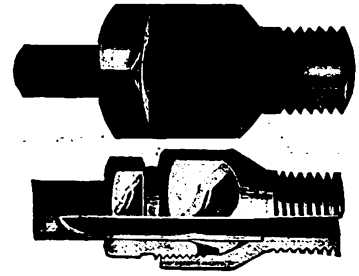
Dole Draft Deflectors act like louvers in the hood. The vacuum they create sucks the stale air out of the car—yet lets in fresh air—without drafts and cross-currents.

Dole Draft Deflectors are permanent and add a touch of distinction to a car. They can be installed in 5 minutes without marring the body finish. Chromium plated. Best quality shatter proof glass (standard) and plate glass (on request). Prices $12.50 to $25.00 per pair.



THE DOLE LEAK PROOF PRIMER

For instant starting of gasoline engines in any weather. Introduces highly vaporized gas directly into the cylinders. Saves the engine by definite reduction of dilution of crank case oil.



DOLE DOUBLE COMPRESSION COUPLINGS

Only two parts, yet two distinct compressions. "Reconnectable," a truly leak proof union each time. No collars, sleeves, flaring, brazing or soldering. Underwriters' approval.

DOLE BALL-ROLL COUPLINGS

A perfected joint, quickly connected, easily reconnected. Withstands vibration. Economical in purchase and service. Underwriters' approval.

Write manufacturer direct for full particulars.

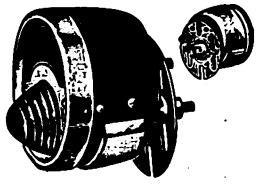
THE DOLE VALVE COMPANY
1913-1933 Carroll Avenue
Chicago, Illinois, U. S. A.

Digitized by Google

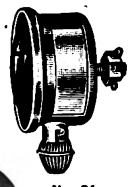
K-D Lamps
FOR EVERY TYPE CAR

K-D LAMPS

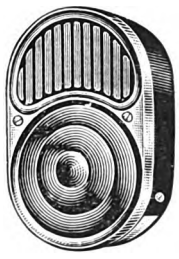
Fender Mirrors
Tire Mirrors
Twolite Head Lamps
Ford Head Lamps
Bullet Shape Head Lamps
Parabola Shape Head Lamps
Gas Head Lamps
Running Board Searchlights
Driving Lamps—The Aristocrat
Driving Lamps—The Broad-Way
Drum Shape Driving Lamps
Bullet Shape Driving Lamps
Ford Cowl Lamps
Chevrolet Cowl Lamps
Universal Cowl Lamps
Fender Lamps
Side Lamps
Bullet Spotlamps
Spotlamps
Replacement Stop Lamps
Replacement Tail Lamps
Stop and Tail Lamps
Stoplamps
Parking Lamps
Ford Tail Lamps
Ford Tail Lamp Repair
Electric Tail Lamps
Ford Head Lamp Reflectors
Ford Head Lamp Doors
Clearance Lamps
Triple Signal Lamps



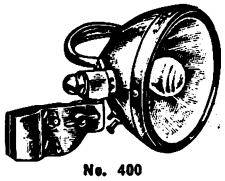
No. 214
Universal stop and tail lamp



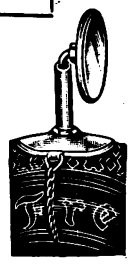
No. 31
Ford Tail Lamp



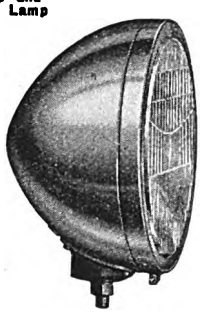
No. 212
Stop and Tail Lamp



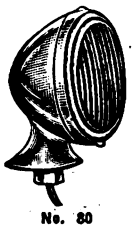
No. 400
Bullet Spot Lamp



No. 85
Tire Mirror with chain and lock

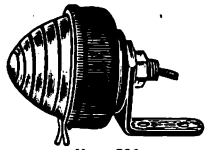


No. 77
Twolite Head Lamp



No. 80
Fender Lamp

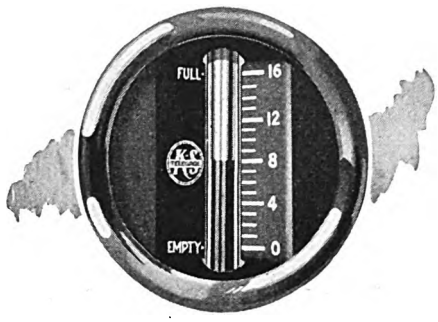
No. 29
Parking Lamp



No. 506
Clearance Lamp

Write for new 1930 Catalog

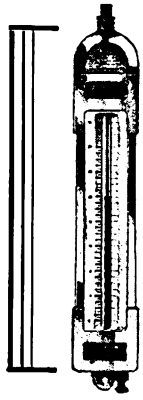
THE K-D LAMP CO.
108-118 West Third St.
Cincinnati, Ohio, U. S. A.
Cable address "Kadylamp"



The Standard Gasoline Gauge of the Automotive Industry

The dependability of this popular dash gauge has resulted in its adoption as standard equipment on the majority of leading American, British and French cars.

New developments have recently been made that will prove of interest to every automotive executive. Detailed information will be sent on request.



The K-S Industrial Telegage

Other models of the Telegage have been developed that serve a wide variety of industrial and domestic uses, measuring with dependability tanks holding water, oil, milk, chemicals and other types of liquid storage.

KING-SEELEY CORPORATION
General Offices and Factory
ANN ARBOR, MICH.

New York Offices: 1182 Broadway
Chicago Offices: 466 Wrigley Bldg.

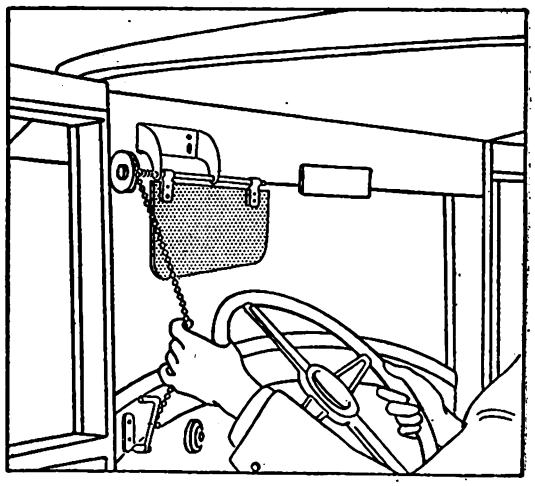
The K-S Telegage

BE CERTAIN WITH THE K-S TELEGAGE

Digitized by Google

Digitized by Google

The Kinney *'Quick-Dim'* Glare Shield

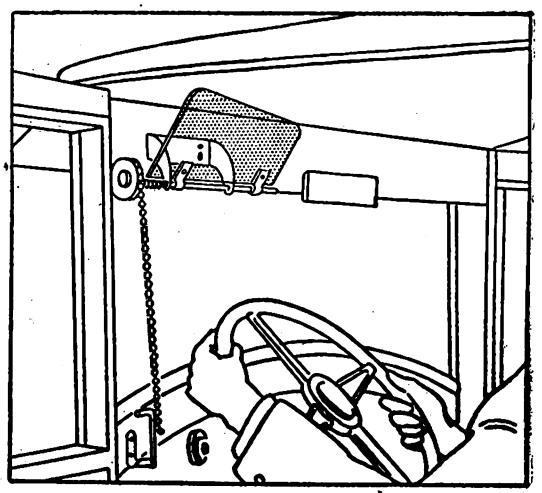


POSITION OF GLASS WHEN IN USE

HERE is a quick selling safety and comfort accessory that does not come on the car as factory equipment. The "Quick-Dim" Glare Shield is made of non-glare specially tinted glass that scientifically filters out the annoying and blinding rays of the sun and the glaring of headlights at night.

A slight pull of the chain or lever lowers the glass into position; released, it returns upward. Can be held in lowered position if desired by pushing lever handle downward. Easily attached on all cars.

Write for prices and discounts.



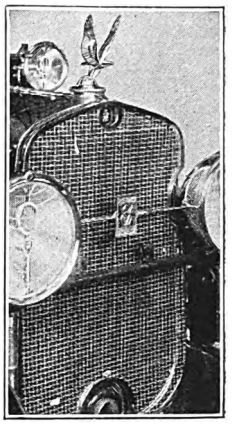
POSITION OF GLASS WHEN NOT IN USE

The KINNEY QUICK-DIM CO.

3529 Washington St., Jamaica Plain, Boston, Mass.

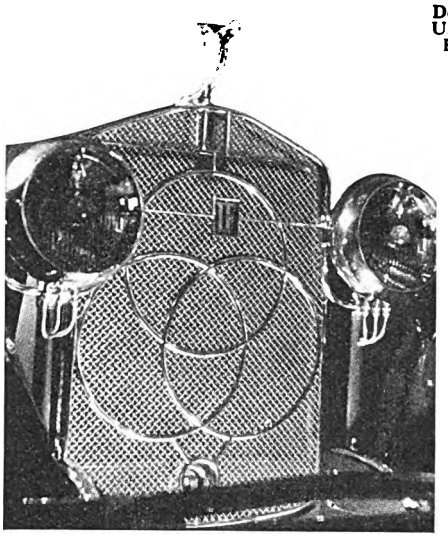
Nil Melior ACCESSORIES

Nil Melior Automobile Accessories add a touch of modernity to the car, appeal to every car owner that takes pride in the appearance of his car. Liberal profit margin on these distinctive accessories.



Ornamental wire screen guards for radiators are made of heavy square or lattice mesh wire chromium plated. Photo at right shows Cadillac equipped with Radiator Shield, Stylized Eagle Ornament, and Marchal Lamps. Below, Isotta Fraschini with Radiator Shield. TRI-LUX Lamps, and Triomphe Radiator Ornament. For all standard makes of cars, priced from $25.

Designs Registered
U. S. Patent Office
Patents Pending



Below—
"ATALANTA" Radiator Ornament. Solid Bronze, Hand Tooled, Chromium Plated. List $20.00.
Aluminum, Highly Polished, $7.50.
Write for folder showing other imported radiator mounts.

Write for literature on complete line of Nil Melior Accessories.
A selection of over 200 Exclusive Imported Radiator Ornaments and Mascots.
Radiator Guards—Stone Guards.
Electric Watches and Clocks.
Trombone, Bugle and Cicca Tenor horns, 2 and 4-tone.
Smoking Sets.
Vanities.
Mirrors.
St. Christopher Medallions.
Head Lights, Foglights, Spot Lights.

Designs Registered
U. S. Patent Office
Patents Pending

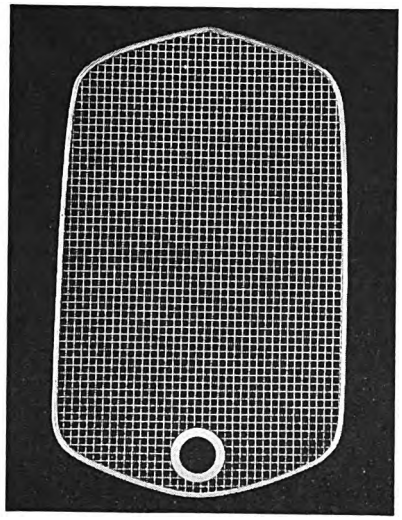
TRI-LUX HEADLIGHT. Importers of MARCHAL Headlights, Foglights, and Spotlights.

nil melior INCORPORATED
IMPORTERS
100 West 56th St., New York

Digitized by Google

GLOBE
AUTOMOTIVE PRODUCTS

HERE ARE THREE ACCESSORIES that are sales successes—that give volume sales and big profits. They are priced to sell quickly so that you can do a large volume and make greater profits.



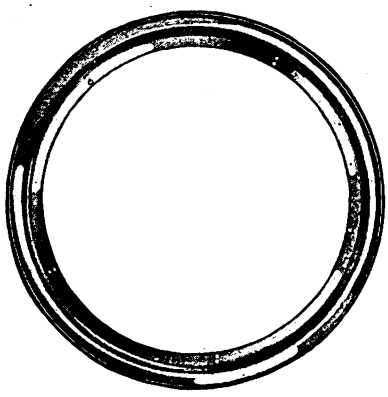
GLOBE RADIATOR SCREEN GRILLES

Here is a strikingly new outstanding car accessory—the Globe Radiator Screen Grille.

It has instant appeal, being the latest style in radiator embellishment. It also serves a practical purpose—that of protecting the radiator from stones and other objects.

Substantially constructed, designed and made to harmonize with radiator lines. Finished in durable Chrome-Plate over copper and nickel. Installation is simple and readily made.

The newest, smartest and fastest selling accessory. Some of the finest cars have Grilles. Thousands of car owners will install them on their cars, resulting in a very large volume of business.



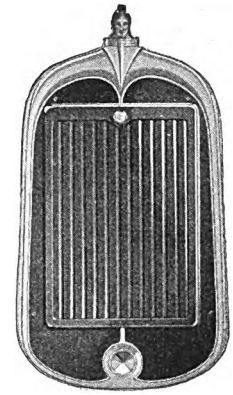
GLOBE WHEEL RINGS

Wire wheels make a neat, snappy appearance when equipped with Globe Wheel Rings. They dress-up the car by their smartness and beauty.

Well made, designed to harmonize with wire wheels. Finished in durable Chrome-Plate over copper and nickel. They will not rattle or jar loose.

Thousands of motorists will install these good-looking Rings on their cars. They set-off the wheels by adding a dressy touch of sportiness to the car.

GLOBE VERTICAL RADIATOR SHUTTERS



The outstanding radiator shutter, featured to retail at popular prices. Built for service, better motor performance, motor driving comfort, smarter car appearance. The shutters your customers demand—the shutter that gives you more profit.

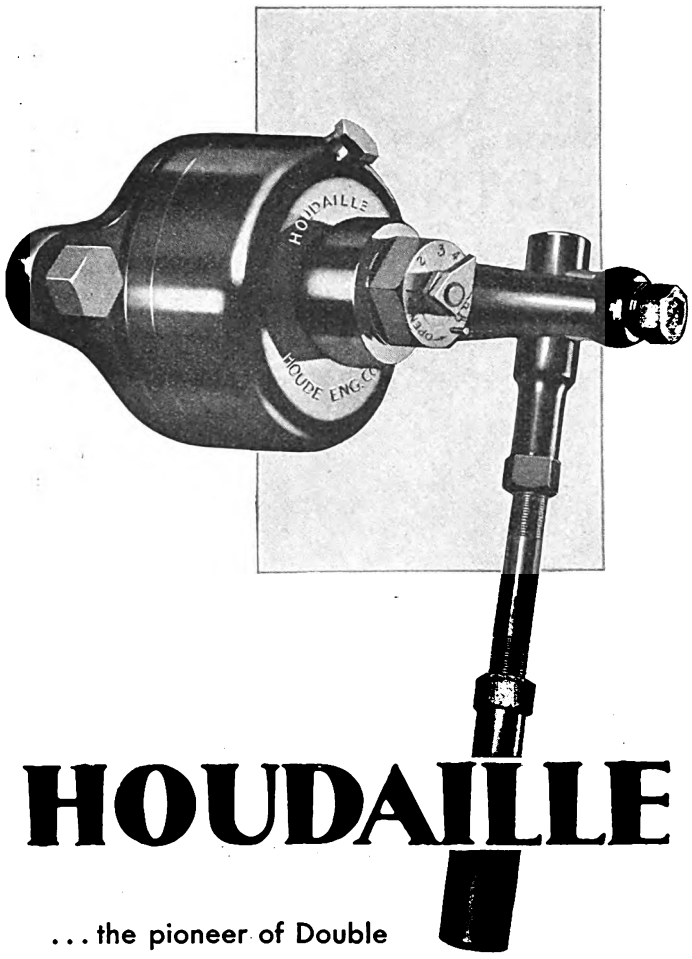
Your sales will gain sharply by offering these three articles to the motoring public. There is a liberal profit for you. The prices are within the reach of everyone. The discounts are right—so scheduled that you are sure to make liberal profits.

Complete information on these profitable articles may be had by writing to us.

THE GLOBE MACHINE & STAMPING CO.

1212 WEST 76TH ST., CLEVELAND, OHIO

Digitized by Google



HOUDAILLE

... the pioneer of Double Acting Shock Absorbers.

Standard equipment on most of the better makes of trucks, buses and passenger cars in the United States and Europe.

There is a Houdaille Hydraulic Double Acting Shock Absorber for every automotive need.

Write for booklet—The Ride of Comfort and Safety.

HOUDAILLE
PRONOUNCED "HOO-DYE"
hydraulic double acting
SHOCK ABSORBER

Houde Engineering Corporation
Buffalo, N.Y.
A DIVISION OF HOUDAILLE-HERSHEY CORPORATION
PIONEERS AND WORLD'S LARGEST PRODUCERS OF HYDRAULIC DOUBLE ACTING SHOCK ABSORBERS

"OPTO-CLEAR" WINDSHIELD HEATER

Keeps the Windshield Clear for Winter Driving. List Price $1.50

OPTO-CLEAR removes steam, frost, sleet and snow by the simple, practical method of directing heated air to the windshield.

Easily installed or removed—Does not disfigure the windshield. Does not obscure the vision—Has no connection with the electrical system or battery—Cannot go out of order—Legal in all States—Low Price.

Duplex Second Spare Tire Carriers

Stimulate your tire and rim sales by stocking Duplex Carriers. Can be used without any change in original equipment.

DUPLEX Series Nos. 3½ to 5 inclusive are complete assembled units with a built in cylinder lock which locks both tires when in use, operated by turning handle, no tools required. Finished in black with udylited handle and extension screw.

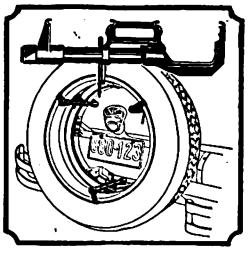
Series Nos. 03½ to 05 same as above except without lock but arranged to lock with padlock.

With lock, prices $7.50 to $9.00. Without lock, prices $5.00 to $6.50. When ordering state rim width and tire diameter, or make, year and model of car.

SERIES Nos. 25 and 26. Three unit type carrier. Each unit grips the rims independently. Only tool required is wrench for outside nut. Finished in black.

No. 25 carries all tires up to and including 5.25 regardless of rim width. Will also carry second wire wheel and tire on 1930-31 Chevrolet. Price $4.00.

No. 26 carries tires 5.50 to 6.50 inclusive on rims 4" or 4½" wide. Price $4.50.



No. 5005 is a special three unit carrier for Chevrolet cars with 4" width rims only being 1928-29-30-31. Finished in black. A very efficient carrier for Chevrolet cars. Price $3.00.

No. 25 carries second wire wheel and tire on 1930-31 Chevrolet.

No. 4001 carrier is a set of three Extension Studs for carrying the second spare wire wheel on Model "A" Ford cars. Price per set $1.50.

Other Extension Studs supplied for all Budd wire and disc wheels, and some other makes of wire wheels. Write for particulars.

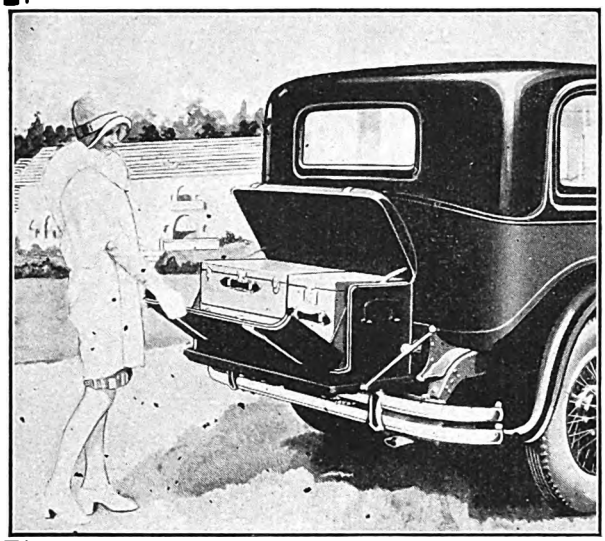
TRIPP LINE TIRE AND RIM SERVICE TOOLS

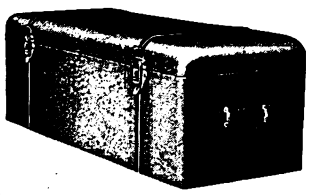
No. 3 Rim Tool. A Service Station tool for operating Clevweld, Firestone and Kelsey-Hayes collapsible rims, including truck rims. $1.50.
No. 4 Ring Tool. A Service Station tool for removing and replacing retaining rings on wire and disc wheels and type "D" rims. $1.50.
No. 10 Tire Iron. A general purpose tire iron with special features. $1.00.
No. 5 Tire Spreader for floor inspection use. Price $1.25.
No 3 Rim Tool. A car owner tool for operating all collapsible type passenger car rims. $1.00.
No. 8 Ring Tool. A car owner tool, 75c.
No. 9 Tool for removing and replacing Zerk Pressed in type Lubricating Fittings. $1.25.
No. 44 Spoke Straightener. An efficient quick acting tool for straightening Model A Ford wire wheel spokes. $7.50.
A line of lead hammers for tire and battery service station use.

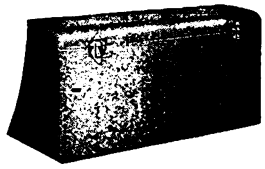
Tripp Products, Inc., 450 E. Woodbridge, Detroit

Digitized by Google

The Highest Standard of Trunk Craftsmanship







The new Steelwood Front and Top opening Trunk was designed by master craftsmen. Built only in Steelwood construction to harmonize with latest body lines of the most expensive cars. Roomy and distinctive. Brilliant chromium plated moulding, new type handles and strong locks of modernistic design. Finished in lustrous black lacquer or in color to match the car. Steelwood Luggage Carriers meet all requirements.

Watts Morehouse suit case equipment fills the demand for cases that properly fit the trunk, filling all available space. You can sell "travel comfort" with these suit cases and Steelwood Quality Trunks. A most essential automobile necessity. Jobbing centers in 51 principal cities. Write for literature.

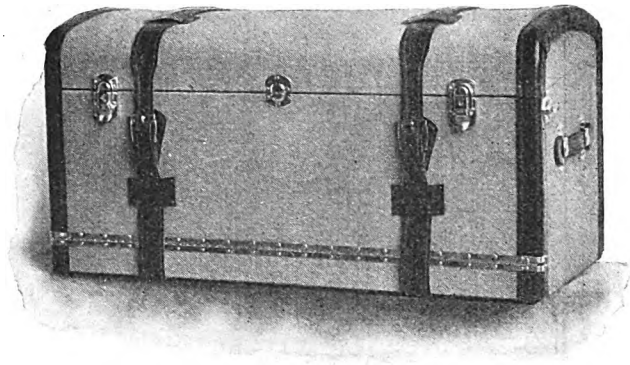
WATTS MOREHOUSE JOBBING CENTERS

Albany, N. Y.
Atlanta, Ga.
Baltimore, Md.
Birmingham, Ala.
Boise, Idaho
Boston, Mass.
Brooklyn, N. Y.
Buffalo, N. Y.
Charleston, W. Va.
Charlotte, N. C.
Chicago, Ill.
Cincinnati, Ohio
Cleveland, Ohio
Columbus, Ga.
Columbus, Ohio
Dallas, Texas
Dayton, Ohio
Des Moines, Iowa
Detroit, Mich.
Fort Dodge, Iowa
Harrisburg, Pa.
Indianapolis, Ind.
Jacksonville, Fla.
Kansas City, Mo.
Los Angeles, Cal.
Madison, Wis.
Memphis, Tenn.
Meridian, Miss.
Miami, Fla.
Minneapolis, Minn.
Montreal, Quebec, Can.
Newark, N. J.
New Orleans, La.
New York City, N. Y.
Oakland, Cal.
Oklahoma City, Okla.
Omaha, Neb.
Ottawa, Ontario, Can.
Philadelphia, Pa.
Phoenix, Ariz.
Pittsburgh, Pa.
Portland, Ore.
St. Louis, Mo.
Salt Lake City, Utah
San Antonio, Texas
Savannah, Ga.
Seattle, Wash.
Spokane, Wash.
Toledo, Ohio
Washington, D. C.
Wilmington, Del.

Write for specification chart on Morehouse Air Brake. Control your brakes with power. Drive with safety, ease and comfort.

WATTS MOREHOUSE MFG. CORP.
Jackson, Michigan

"Craftsmen in Motor Luggage"



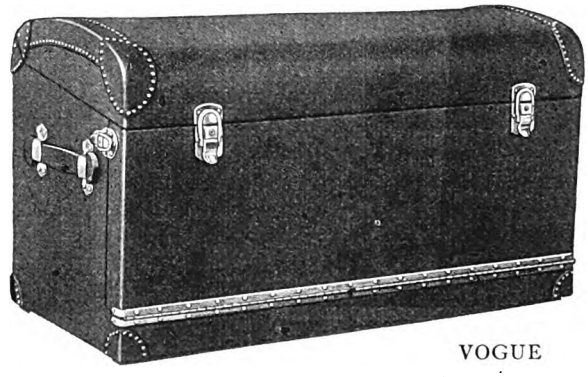
Patrician

Careful designing, skilled workmanship and the finest materials combine to make each model an outstanding unit in its field.

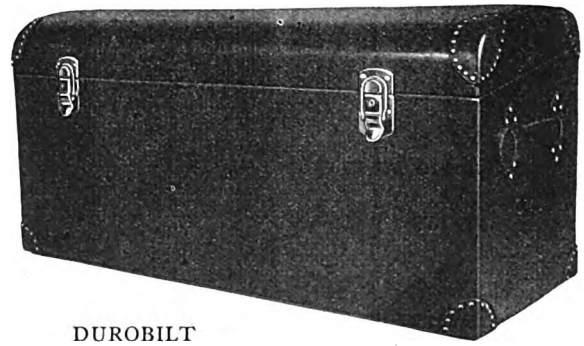
Drop Front and Top Opening Models in sizes to fit all cars and showing a wide price range offer attractive possibilities to the dealer.

Suit Cases, Overnight Bags and Hat Boxes for all models as standard or optional equipment.

We would be pleased to submit literature and prices.



VOGUE



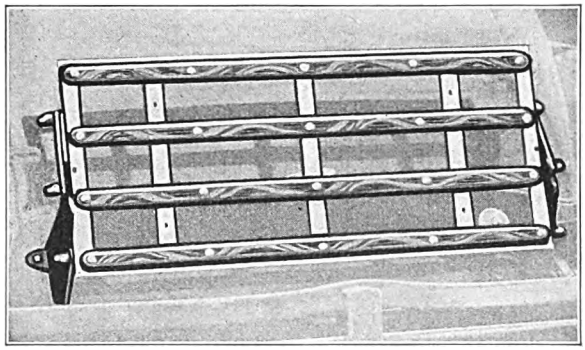
DUROBILT

H. M. PICKARD & CO., INC.
AVOCA, N. Y.

Digitized by Google

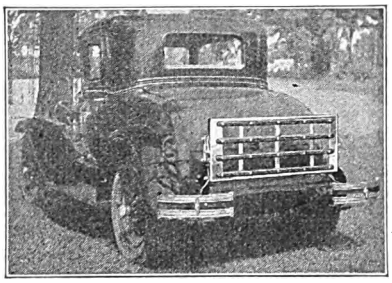
HANDY BELLEVUE RACK

"The Luggage Rack Beautiful"



"A" Fords
6 Cyl. Chevrolets
Whippets

Trimmed with "Bellevue" distinctive Cross strips formed of metal-finished in natural wood grain.

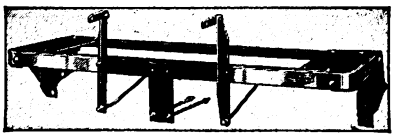


Chrome Plated
or
"Two Coat"
Black Enameled

Ample carrying space for cases, luggage, crates, parcels, etc.

BELLEVUE PLATFORM Trunkracks

The Heart
of a
Successful Trunk
Installation



Bellevue Features
- Platform under entire trunk.
- Sturdy tire suspension.
- Adequate Anchorage.
- Bumperet extensions.
- Decorative trim.

Buick
Chevrolet
Chrysler
De Soto
Dodge Brothers
Durant
Essex
Erskine
Ford
Graham
Hudson
Hupmobile
Marmon
Marquette
Nash
Oakland
Olds
Pontiac
Plymouth
Reo
Roosevelt
Studebaker
Viking
Whippet
Willys-Knight
Willys

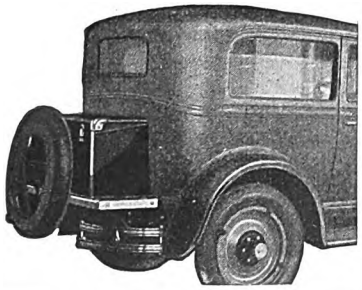
We also carry a line of Jacks and License fasteners

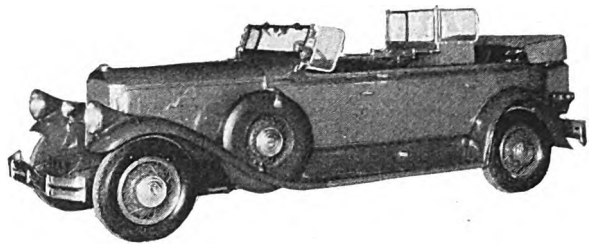
Convenient distributor's stocks thruout the U.S.A. and Canada.

Write for name and address of nearest distributor.

The Bellevue Mfg. Company

Bellevue Ohio





The "J.H." EXTENSIBLE TONNEAU WINDSHIELD

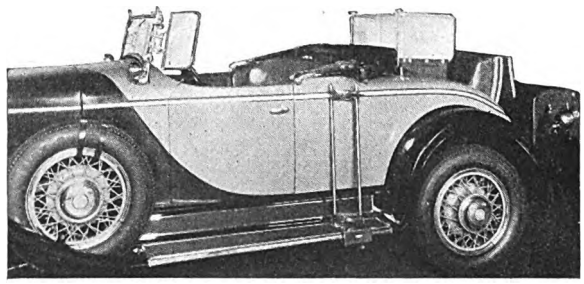
THE "AMERICAN AUSTER" EXTENSIBLE SHIELD

THE "DISAPPEARING" RUMBLE SEAT SHIELD

The "J.H." DE LUXE OPEN AND CLOSED CAR SIDE WINGS

The "J.H." DE LUXE GOLF BAG CARRIERS

TONNEAU SHIELD CO., INC.
Manufacturers
518 West 57th St., New York City



Digitized by Google

Spotlights, Dash Lamps, Tail Lamps, Stop Lamps, Combination Stop and Tail Lamps, Trouble Lamps, Griptite Lamps, Parking Lamps, Dome Lamps, Bus and Truck Lamps, Courtesy Lamps, Stop Light and Dash Switches, Plugs and Sockets.

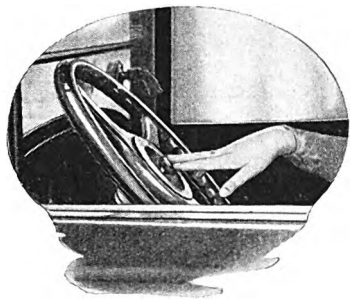
PINES

AID MANUFACTURING CO.'S PRODUCTS NOW MADE BY PINES

Let your nearest Pines distributor explain the profit possibilities in selling Pines Automatic Winterfronts, detachable type, to fit most cars not equipped.

THE NEW Finger-Tip Control Switch

Starter, Lights, Horn, All In One



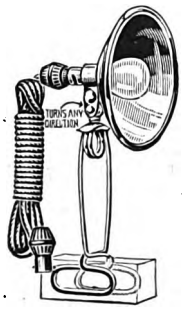
For Instant Control At Finger Tip

Now Standard Equipment on Automobiles of Several Leading Manufacturers

The central control, or "finger-tip" control, consists of a switch mounted at the base of steering gear and is operated by a single button conveniently located in the center of steering wheel that is connected to the switch by a single tube running through the steering column. This arrangement permits the horn to be sounded in the usual way, by depressing button. Pulling up on this button closes the starter switch and starts the motor. And the notched edges of this button permit it to be rotated through several positions, whereby all the lights are controlled.

Truck and Bus Warning Lights Conform with Michigan State Auto Law

Specially designed to meet the requirements of Michigan and other states' auto laws. The body of lamp and lamp bracket is made of extra heavy high grade steel, finished in black high gloss baked on enamel. Inside of lamps finished in high grade silver bronze, which gives a maximum reflection at all times. Each lamp equipped with a very high grade 2½-inch diameter green beehive lens and a 6/8-volt, 3-candlepower bulb. These lamps can be installed very easily on busses, trucks or any commercial vehicle requiring warning lights. Each set of three lamps packed in individual carton. Weight of set of 3 lamps in carton, 1¾ lbs. each.



Plugs in any socket in any car

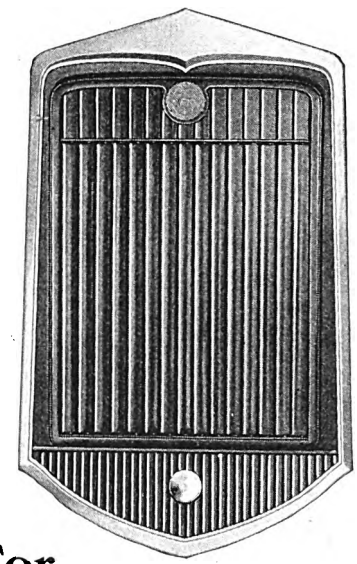
GRIPTITE

Meets Every Need For a General Utility Light—Spot Light—Trouble Light —Tent Light, Etc.

The large 4⅞-inch diameter reflector with its 21-candlepower Mazda bulb and thick concave glass lens will throw a strong, narrow beam of light for use as an auxiliary spot light or road light. And, by a simple adjustment of the socket, the beam of light is broadened and diffused, giving a soft, desirable light for interior lighting of tents when reading, writing, etc.

It is by far the most universal lamp ever placed on the market and is equally adaptable and satisfactory for one purpose as another. Clamps any place on the car or tent supports. The rubber covered grip will not mar the finest finishes and holds firmly in any position.

NEW AND GREATER AUTOMATIC Radiator Shutters



For PASSENGER CARS BUSSES — TRUCKS

MANUFACTURERS of passenger cars, busses or trucks, are invited to use the engineering department of the Pines Winterfront Company when planning to incorporate Automatic Radiator Shutters in their chassis. With the advantages of Pines Automatic Radiator Shutters for all types of passenger and commercial vehicles becoming more apparent each year, our staff has collected special data on the subject of automatic motor protection and our counsel will be given freely.

The Pines Automatic Radiator Shutters are now standard equipment on more than twenty-five cars. Names of cars equipped will be given on request.

PINES WINTERFRONT

It's Automatic

PINES WINTERFRONT COMPANY

1125 North Cicero Avenue **Chicago, Illinois**

Digitized by Google

FREE!

this attractive red metal

SALES CABINET

with the purchase of only $9.15 worth of quick-selling Schrader products

The new No. 8003 Reddy Seller with popular assortment. Keeps stock orderly. Identifies you as a progressive merchant who sells only genuine Schrader products.

DON'T MISS this opportunity . . . lower cost and bigger profit in the assortment and still this business-getting container is FREE!

Now you, too, can have a Reddy Seller on your counter or in your window . . . making profits for *you.* This new offer gives you this display cabinet *free* with a new assortment of Schrader products, consisting of those items that make up the usual dealer's order.

You even save money on this offer. The new assortment costs actually less with the Reddy Seller than you would pay for the same items separately. Every article is a fast seller. Look at the list. You know that these Schrader products sell . . . you'll find they sell even faster with a Reddy Seller working for you.

Schrader Reddy Seller FREE
with this assortment of fast-selling Schrader products

3 No. 4996-A Balloon Tire Gauges	$3.06
100 No. 4000 Valve Cores	3.80
50 No. 880 Valve Caps	1.76
25 No. 935 Valve Caps (for bent valves)	.88
Regular dealer's price of contents purchased separately*	$9.50
Dealer's price of above assortment packed in FREE Reddy Seller*	9.15
Retail price of this assortment	15.45

**Subject to 2% cash discount*

Don't wait. Ask your supply house to send you a Reddy Seller *today.*

A. Schrader's Son, Inc. Brooklyn, Chicago, Toronto and London.

Schrader

Makers of Pneumatic Valves Since 1844

TIRE VALVES **TIRE GAUGES**

PECK'S VALVE INSIDES

AND OTHER PRODUCTS

Better, Because It *Has* To Be!

When we decided to introduce a new Valve Inside, we were well aware of the wall of competition we would be up against. And we knew that our only hope lay in producing something *very much better* than anything on the market. Our mounting sales now prove the quality of our product. Here it is — the first real improvement since "pneumatics" came in:

1. A collar cut (not cast) from live India rubber, plus a
2. Cut Valve Seat of same material, insure a perfect air seal.
3. Spring of heat, cold and moisture resistant phosphor bronze.
4. Coil Plug, a part of the main spring, can't come loose.

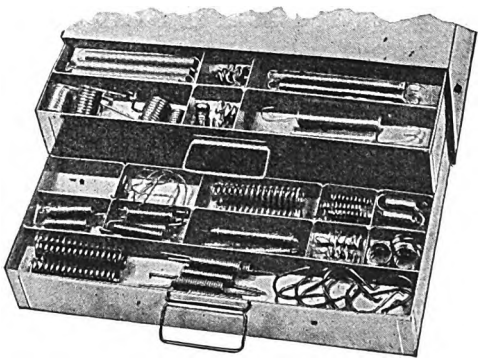
In red tin boxes of five.

PECK'S VALVE CAPS

Regular Cap

Durable, dependable, non-leakable Valve Caps. Dependable because they are accurately turned to the .001 part of an inch. Non-leakable because they are fitted with the best of rubber gaskets. Packed 100 in a box.

Angle Cap



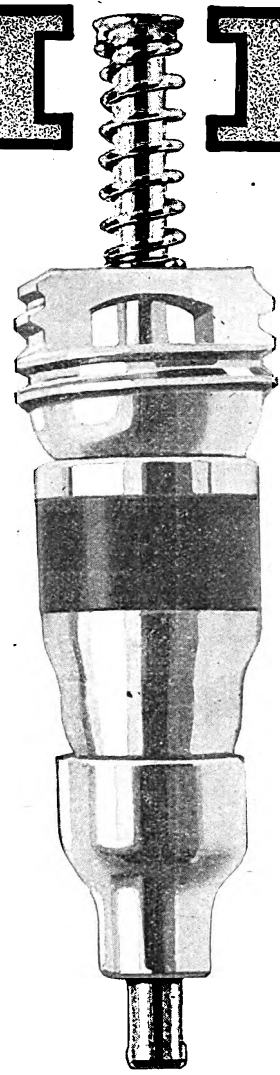
PECK'S BRAKE SPRING ASSORTMENT

Contains 264 automotive springs, each in its own compartment. Includes all brake, accelerator and connecting rod springs, for Buick, Cadillac, Dodge, Oakland, Studebaker, Hudson, Essex, Oldsmobile and Chevrolet. In two-drawer steel cabinet.

THE PECK SPRING CO., Plainville, Conn.

Digitized by Google

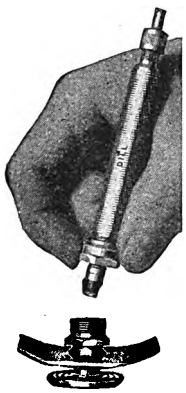
DILL



New Super Seal Valve Inside

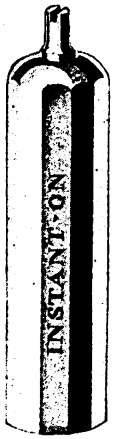
Easiest and quickest to inflate, and holds air longest. Precision-made of finest materials.

TIRE VALVES



New Instant-on Valve

Two piece valve stem for truck tires. Base and bridge plate standard—desired type of stem instantly attached.



Instant-on Valve and Dust Cap

Valve and Dust Cap combined in one perfect unit. A twist and a push—and it's on; reverse the motions and it's off.

DILL TIRE HARDWARE includes every part needed for modern tire service—and every part is Dill Quality, the highest standard.

Dill engineering is constantly in step with the changing requirements of present day motor car and truck design, and Dill precision manufacturing methods insure accuracy and customer satisfaction.

Complete catalog of Dill Tire Hardware will be sent on request.

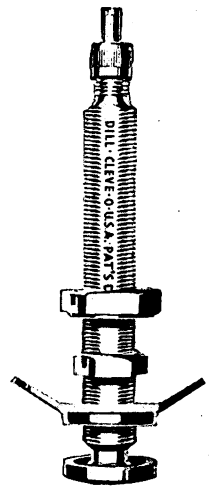
DILL PRODUCTS

Air Bag Stems	Mold Heater Connection Equipment	Screw Machine Products
Air Chucks	Ferrules—Screw Driver	Serial Number Plates
Air Chuck Couplings	Hex Nuts—Tire Valve	Spreaders—Tire Valve
Clips—Gas Line—Speedometer Cable, etc.	Metal Stampings	Tire Valves
Deflating Caps	Pump Connections	Tire Gauges
Dust Caps	Rim Nuts—Tire Valve	Tire Brands
Dill—Humphrey Mold Heater Connections	Rim Parts—Cam Locks —Rim Drives— Felloe Drives	Tire Valve Tools
Extensions—TireValves		Valve Insides
		Valve Caps

DILL MANUFACTURING CO. · *Cleveland, Ohio*

AKRON · LOS ANGELES · DETROIT

Manufactured in Canada by The Dill Manufacturing Co. of Canada, Ltd., Toronto, Ont.



Complete Dill Valves

Engineered and built to Dill's own standards of quality and service. Complete line—for every standard tire.

Super Service Air Chucks

Easy operation and quick air-tight contact. Accurate and rigid construction insures long, dependable service.

Dill Super Pressure Tester

Accurate and convenient. All moving parts protected—inside the barrel. Durable and dependable.

Digitized by Google

Clear All the Way Across

TRICO

VISIONALL "X"

$8.50
and the small cleaner

Two blades keep the whole windshield crystal clear at all times. Full view of the roadway for passengers as well as the driver.

Simplified installation—1 air line.

Models to Fit all Cars

Visionall "X" is companion cleaner to the DeLuxe Model Visionall with special parking mechanism.

TRICO
5-PLY BLADE 35c

For Visionalls and all swinging types of automatic cleaners. A patented construction which assures a clean wipe on every stroke. Light weight and rustproof. In attractive display containers.

Also the complete line of Trico Rear View Mirrors, for interior attachment, exterior, telescoping mirrors for trucks and buses, tire mirrors, fender mirrors, windshield wings and Trico Sleet Wands.

Write for further Information on Visionalls and other Trico Automatic Windshield Cleaners.

TRICO PRODUCTS CORPORATION
World's Largest Manufacturers of Windshield Equipment
807 Washington Street
BUFFALO, N. Y.

Extra Profits with Puritan Products

The famous red and yellow packages sell each other. Every Puritan product is so satisfactory that users of one readily buy all. A complete unified line—every chemical necessity for motorists. One brand—one investment—and year-'round profits. This Fall there will be EXTRA LARGE PROFITS in the new Puritan ANTI-FREEZE deal. No alcohol, no water—one filling lasts all winter. Write for details.

Puritan Products Backed by Intensive Localized Advertising

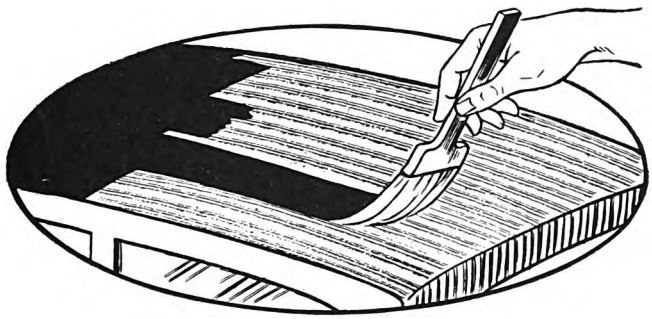
Puritan Stop-Leak—Fall
Puritan Anti-Freeze — Fall and Winter
Puritan Radiator Cleaner—Fall and Spring
Puritan Tar Remover—Spring and Summer
Puritan Top Finish—Spring and Summer

Puritan Auto Polish
Puritan Fabric Cleaner
Puritan Oil Soap
Puritan Nickel Polish
Sell the year 'round

PURITAN SOAP ·· CO ··
ROCHESTER NEW YORK

Digitized by Google

Stops Leaks .....permanently



AUTO-TOP-SEAL is a permanent top-dressing for new and old car tops. When applied to shabby, weatherbeaten tops it does more than beautify. It stops leaks. It waterproofs. It prevents deterioration. No other top-dressing offers this three-fold protection. And when applied to a new top it practically keeps the top new throughout the life of the car. A wonderful boon to car owners.

The Only "Slow-Drying" Top-Dressing

Auto-Top-Seal is a smooth, elastic liquid that spreads evenly and leaves a pliant, protective coating that, unlike other so called top-dressings, dries slowly. This enables it to retain maximum elasticity and pliability after it is applied to the fabric, making it absolutely sunproof—rainproof—sleetproof. Can be used on imitation leather, mohair or any other kind of top material.

Easily applied with an ordinary flat brush—and usually dries overnight. Write at once for attractive Jobber's proposition. **Paint Products Division, The Southern Cotton Oil Co., Savannah, Ga.**

AUTO TOP SEAL
Waterproofs – Preserves – Beautifies

POWER-DYNE
REG. U.S. PAT. OFF.

ELECTRIC WINDSHIELD CLEANER

REGULAR MODELS $4.00

FORD MODEL $4.25

The Power - Dyne Electric Windshield Cleaner is the most compact and the most simply constructed cleaner on the market. Built to last, and is practically indestructible. Made in several models, for inside or outside mounting. Extremely easy to attach.

A special Model to fit all Ford Model A closed cars without the need of drilling additional holes. Very easily mounted.

We also make a special model for cars equipped with 12 volt batteries.

TANDEM ATTACHMENT

We are also manufacturing a standard tandem attachment to fit all cleaners, easily attached. List price 75c.

IMPORTANT

We agree to repair or replace free of charge any cleaner that fails to operate.

POWER-DYNE MFG. CORP.
136-138 West 22nd St., New York City

Digitized by Google

$180
a square foot

is the annual rent thousands of dealers get for the space occupied by this Silent Salesman.

Three million car owners — who wouldn't think of using a cheap dust cloth on their expensive cars — bought a KozaK from it last year, and found out that you don't have to splash around with water to keep a car spotless.

KOZAK
Auto Dry Wash
REG. PAT OFF U.S AND CANADA

Saves its cost twice over the first time used—and can be used dozens of times.

It is backed by:—

Saturday Evening Post advertising —twice a month.

Radio — 35 stations — 6 nights a week.

Advertising cars—5 of them constantly covering the country.

Direct Mail—to new car owners.

Sold Only Through Jobbers

Ask your jobber's salesman or write us for the name of the nearest KozaK jobber.

KOZAK, Inc.

1 Park St. Batavia, N. Y.

MOTOR OILS
OF THE
FINER GRADES

TRADE MARK REG. U.S. PAT. OFF.
WOLF'S HEAD OIL
WOLVERINE · LUBRICANTS · COMPANY · INC. N.Y.

A REVELATION IN LUBRICATION

100% PURE PENNSYLVANIA
STRAIGHT RUN—DOUBLE DISTILLED
THOROUGHLY DEWAXED
TRIPLE FILTERED
HIGH FIRE TEST—LOW COLD TEST

WOLVERINE - EMPIRE REFINING COMPANY

MAIN OFFICE
51 MADISON AVE., N. Y. CITY
REFINERIES
RENO, PA.—TIDIOUTE, PA.

TERRITORIAL DISTRIBUTORS

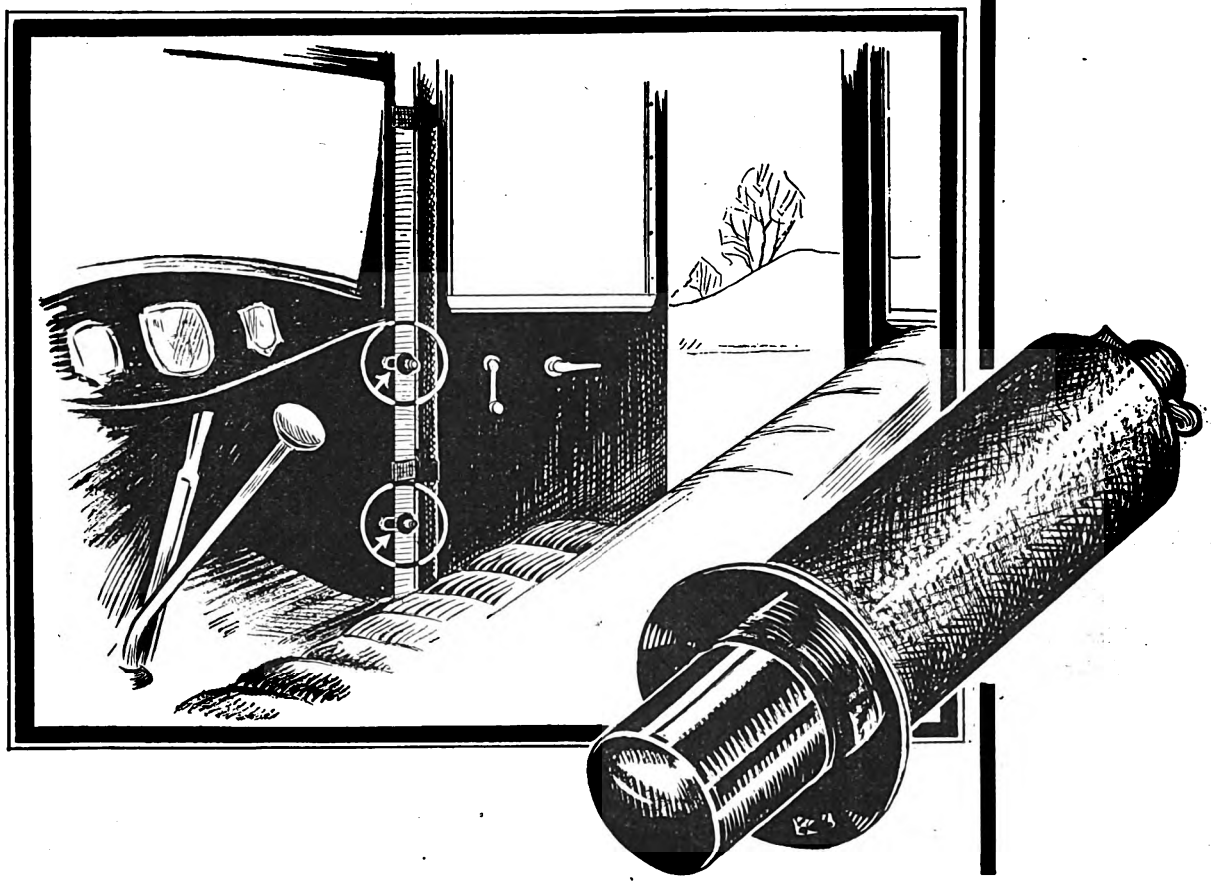
Buhl Sons Co.
Detroit, Michigan
L-E-K Oil Company
Garden City, N. Y.
Federal Oil Co.
Minneapolis, Minn.
Albany Hardware & Iron Co.
Albany, N. Y.
Richmond Motor Co., Inc.
Richmond, Va.
Drennen Motor Car Co.
Birmingham, Ala.
Prescott Oil Company
Franklin, N. H.
General Equipment Corp.
Boston, Mass.
Jenkins Automotive Parts Service, Inc.
Columbia, S. C.
Miami Tire Co.
Miami, Fla.
United Petroleum Corp.
New Orleans, La.
Owens-Merritt Co., Inc.
Danville, Va.
Baltimore Gas Light Co.
Baltimore, Md.
I. W. Bagwell
Onancock, Va.
Almy Auto Co.
Rochester, N. Y.
Ambrose Oil Co.
Gallup, Mexico
Canadian-Fairbanks-Morse Co.
Montreal, Que., Vancouver, B. C.
Cameron & Barkley Co.
Charleston, S. C.
Macmillan Petroleum Corp.
Los Angeles, Calif. and Pacific Coast Cities
Fair-Chester Oil Co., Inc.
Port Chester, N. Y.
Thomas Sales Corp.
Cedar Rapids, Iowa
Elin Auto Supply Co.
Newark, N. J.
Knight & Wall
Tampa, Fla.
Monahan & Royal
Philadelphia, Pa.
Beck & Gregg Hardware Co.
Atlanta, Ga.
Witmer Oil Co.
Webster, N. Y.
Southeast Wheel & Rim Co.,
Jacksonville, Fla.
Sanderson-Digges Co.
Orlando, Fla.
Perry & Sherman, Inc.
Utica, N. Y.
Charlottesville Oil Co.
Charlottesville, Va.
Shepherds' Auto Supply Co.
Roanoke, Va.
Automobile Supply Co.
Wilmington, N. C.
Shenandoah Park Oil Corp.
Ruckersville, Va.
Thompson Wooten
Goldsboro, N. C.
Cia Importadora de Lubricantes, S.A.
Mexico D.F., Mexico

Digitized by Google

EVERY CAR OWNER

WILL WANT A SET OF "DOOR CHEKS"

FOR HIS CAR . . . . . .



Door rattling, sagging, hard opening and closing can be eliminated in a few minutes by installing a set of DOOR CHEKS. They hold the doors firmly, minimizing noise.

Car owners welcome this easy and effective means of ending these common troubles. There is big profit in it for you, the serviceman. Installation takes but 5 minutes, and all you need is a drill to bore the holes, insert the Cheks and the job is done. Every sale means a good profit. Write for catalog sheets, discounts, etc. Territory available for sales representatives. Write or wire.

A PROFITABLE OPPORTUNITY

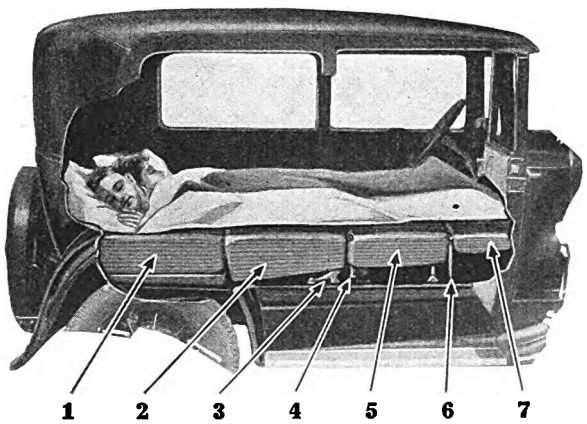
Auto Door Cheks are mounted on a beautiful self selling display card—12 to a card. See for yourself how fast they sell by ordering a trial dozen. Motorists NEED them — and there's plenty of profit for you.

MAIL US YOUR ORDER NOW!

AUTO DOOR CHEK SPECIALTY CO.

482 MOTT AVENUE...NEW YORK CITY...N. Y.

Digitized by Google



1. *Back Rest for Rear Seat.*
2. *Rear Seat Cushion.*
3. *Foot Rest.*
4. *Folding Leg.*
5. *Front Seat Cushion.*
6. *Cone-Shaped Hinge Bar.*
7. *Back Rest for Front Seats. Use for Extra length Beds.*

NEW!! NOVEL!!

Practical!! *Profitable!!*

The Sportsman and Camper's Bed.
The Tourist's Sure Reliance.
An Extra Bed When Company Comes.
The Physician's Ambulance.
The Physician's Stand-by.
One May Drive While Others Sleep.

"In a Peep, Ready for Sleep."

The Motor-Bed

Made Down Like a Pullman.

IN one minute your car converted into a bed without the use of tools. No springs, pad, mattress, tent or other dead weight to carry. Appearance of the car in no way altered, as there is nothing in sight when not in use. *FOR ALL COACH TYPE CARS.*

MOTOR-BED Manufacturing Company

Sales Office: 616 South Michigan Ave.

CHICAGO, ILLINOIS

Fill All Your Needs from This ONE Source!

YOU SAVE 25% to 60%

AT OUR LOW JOBBING PRICES!

A BIGGER, MORE COMPLETE LINE OF FAST SELLING

AUTO ACCESSORIES AND RADIO

America's Lowest Wholesale Prices!

QUICKER, BETTER SERVICE

What Some of Our Dealers Say:—

QUALITY MERCHANDISE
The quality of your goods has been all that reason could expect, and your prices have been such that I think none has a right to question. —*Parkersburg, W. Va.*

PRICES A REVELATION
Your service has been eminently satisfactory. The goods shipped us have been the best we have ever bought. We appreciate your catalogs very much, for they are revelations in price making. —*Florence, Ala.*

SERVICE UNEXCELLED
I just want to say that your service is the very best and your goods are the very best that I have ever bought at any price.
—*Spring Valley, N. Y.*

SQUARE DEAL POLICY
You are positively one of the fairest, squarest concerns that I know of, and go a long way out of your regular routine to make new customers and friends. —*Frostburg, Md.*

(Names of above dealers furnished on request)

WRITE *TODAY* FOR THE LATEST ISSUE OF

"TIRE WORLD"

THE AUTOMOTIVE DEALER'S GUIDE BOOK TO

BIG PROFITS

SENT FREE TO ALL DEALERS

CONTINENTAL TIRE CORPORATION

1805-15 MICHIGAN AVE. DEPT. C. CHICAGO

Digitized by Google

FOREMAN

"TRIANGLE BRAND"

DEPENDABLE AXLE SHAFTS

ELECTRICALLY DOUBLE HEAT TREATED

FOREMAN AXLE SHAFTS

Started from scratch sixteen years ago as the PIONEER Replacement Axle Shaft and has won EVERY RACE for ENDURANCE, QUALITY, MECHANICAL APPEARANCE and EXACTING SPECIFICATIONS.

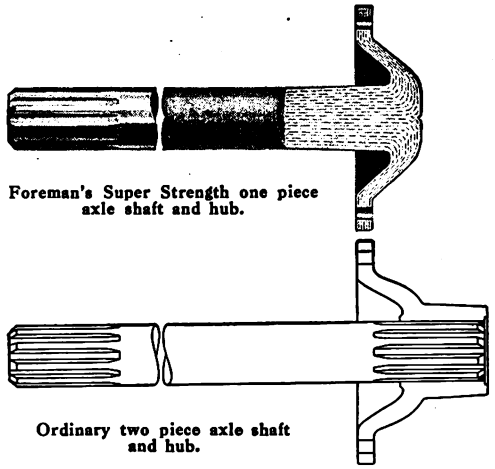
FOREMAN AXLE SHAFTS are being constantly improved. Expert axle shaft engineers, specialists in one line only, keep FOREMAN in front and allow the advertising of FOREMAN AXLE SHAFTS as

"THE BETTER SHAFT"
WITHOUT FEAR OF CONTRADICTION

A replacement carried in stock for almost every make or model of Automobile, Truck, Motor Bus or Tractor.

Announcing

Foreman's Super Strength One Piece Combination Axle Shaft and Hub for Trucks.



Foreman's Super Strength one piece axle shaft and hub.

Ordinary two piece axle shaft and hub.

The following engineering facts prove Foreman design means greater strength:

1. More metal at HUB end because of elimination of splines, adding 33 1/3% to strength.
2. Flange and shaft made of same high grade alloy metal, giving increase in strength to flange.
3. Perfect alignment, because made in one piece and machined between same centers.
4. Impossibility of Flange becoming loose on shaft.
5. Perfect grain metal because of improved forging methods. (See upper illustration).
6. No surplus metal protruding beyond wheel face.

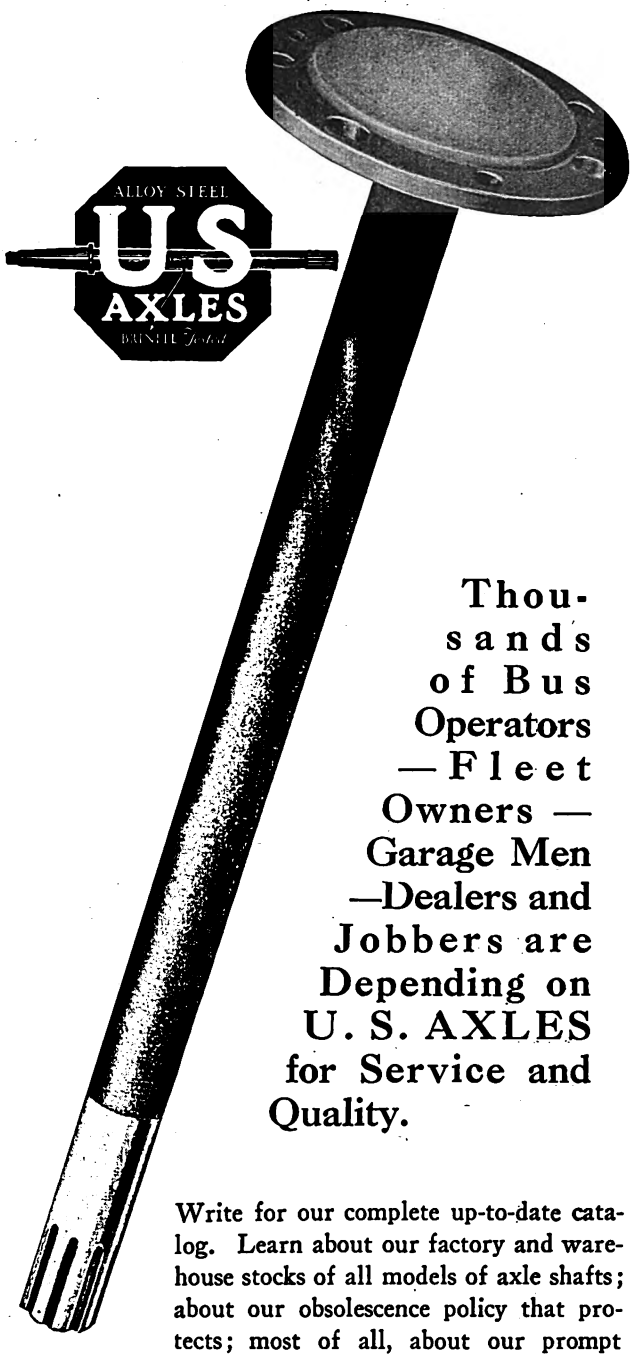
FOREMAN SUPER STRENGTH COMBINATION ONE PIECE AXLE SHAFT AND HUB for trucks is a development of Foreman engineers. This development is an exclusive and superior design which was worked out by us seven years ago to overcome axle shaft difficulties in certain popular motor buses. A replacement for every axle shaft, where this type of combination can be used.

NO HIGHER IN PRICE THAN THE ORDINARY TWO PIECE COMBINATION

WRITE FOR CATALOG NO. 60 FOR COMPLETE PRICES AND CAR SPECIFICATIONS

W. D. FOREMAN

54th and State Sts.
CHICAGO, ILL., U. S. A.



Thousands of Bus Operators — Fleet Owners — Garage Men —Dealers and Jobbers are Depending on U. S. AXLES for Service and Quality.

Write for our complete up-to-date catalog. Learn about our factory and warehouse stocks of all models of axle shafts; about our obsolescence policy that protects; most of all, about our prompt service.

We manufacture: Axle Shafts
Drive Shafts
Hub Flanges
Alloy Steel
Shafts of all kinds.

NSPA

The U. S. Axle Company, Inc.

Water Street, Pottstown, Pa.

WAREHOUSES

ATLANTA, GA., 286 Spring St., N. W.
CHICAGO, ILL., Wabash Ave. at 21st St.
NEW YORK CITY, 250 W. 54th St.
SAN FRANCISCO, 540 Howard St.
EXPORT OFFICE, 90 West St., N. Y. C.

Digitized by Google

SPENCER

FOR QUICK SERVICE AND SATISFACTION BUY SPENCER AXLES.....

Spencer Axle Shafts are made of the highest grade steels; a full line, a size for every car, truck and bus.

Built to the highest standards of accuracy in manufacture, scientific heat treatment and rigid inspections.

Spencer Axle Shafts are ground in an ample radius up to the flange on the shafts, allowing strength where it is needed most.

Spencer Shafts are carried in stock at all warehouse units and authorized distributors of the National Automotive Parts Association. There's a complete stock where your orders can be filled in 24 hours or less.

Get in touch with the N.A.P.A. distributor today.

N·A·P·A
National Automotive Parts Association

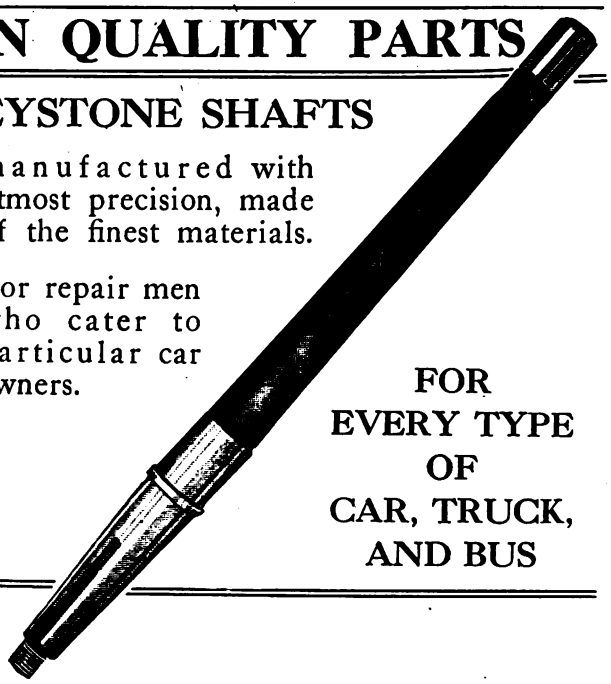
SPENCER MFG. COMPANY
SPENCER, OHIO

BUILD YOUR BUSINESS ON QUALITY PARTS

KEYSTONE SHAFTS

manufactured with utmost precision, made of the finest materials.

For repair men who cater to particular car owners.



FOR EVERY TYPE OF CAR, TRUCK, AND BUS

Heat treated Keystone Shafts of Alloy Steel and Chrome Nickel are built exclusively by the Remington-Keystone Mfg. Co. We have the benefit of years of experience specializing in the manufacture of Automobile Rear Axle Shafts, Drive Shafts, and Pinion Shafts for replacement. Continuous effort to improve on our "original" product has given us a QUALITY PRODUCT which we believe to be second to none. All material is tested by our Metallurgist prior to manufacturing. Heat treating furnaces controlled by Pyrometers tested daily.

Every shaft must be right. That is our entire manufacturing and merchandising policy which is rigidly carried out in our inspection and our guarantee. Ask for latest catalog showing complete list of replacement parts.

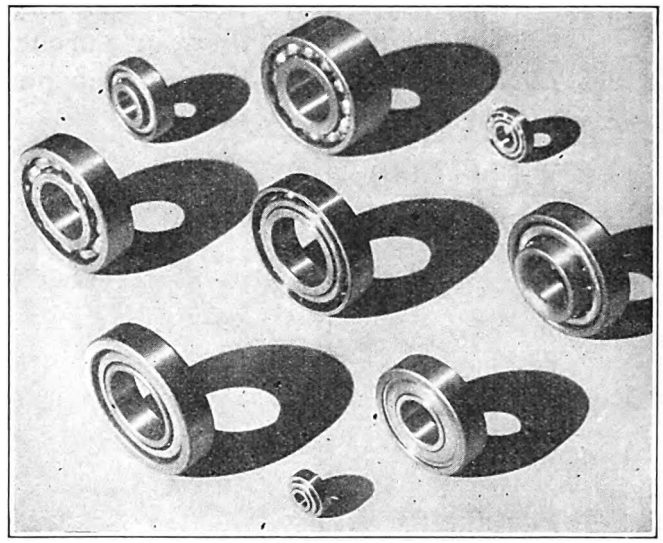
REMINGTON-KEYSTONE MFG. CO.
RIDLEY PARK PENNSYLVANIA

Digitized by Google

THE WORK OF THE WORLD MOVES FASTER AND SMOOTHER ON

NEW DEPARTURE BALL BEARINGS

NEW DEPARTURE Ball Bearings are outstanding high-grade, heavy duty, precision anti-friction bearings. There is a type for every service requirement, including a capacity for high and low speeds, light and heavy loads and radial and thrust loads separately or in any combination. Each type is made to internationally standardized dimensions and is interchangeable with both foreign and domestic makes.



NOTHING ROLLS LIKE A BALL

TYPES OFFERED

SINGLE ROW, a radial load bearing having, under certain conditions, a definite amount of thrust capacity.

DOUBLE ROW, having two rows of balls and ball raceways with angular contact lines to withstand both radial and thrust loads.

RADAX, a bearing capable of taking radial and one-direction thrust loads in combination.

SHIELDED TYPE, a Single Row bearing with a plate shield for protection against foreign matter. May be used for combined loads where thrust does not exceed 50 per cent of imposed radial load. For clutch pilot and other inaccessible positions.

N-D-SEAL, a self-sealed, self-lubricated bearing for smaller shaft sizes. Contains sufficient lubricant for several years' operation.

FRONT WHEEL Bearings in pairs, of special heavy construction for the shocks of front wheel application.

MAGNETO TYPE, a small angular contact bearing developed especially for high speeds in small electrical devices.

TO DESIGNERS

Ball Bearings should be engineered into your product or machine. New Departure engineers offer you free consultation service—will recommend proper sizes and types as well as assist in the design of housing and enclosure. Send them blueprints of proposed design with data from which can be determined loads, speeds, etc.

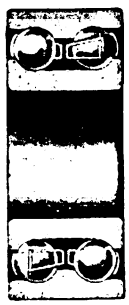
Also free to engineers and designers is an Engineering Handbook containing hundreds of successful applications. New sheets issued monthly.

NATION-WIDE FIELD SERVICE

One thousand authorized distributors of United Motors Service, Inc., official representatives, stock New Departure Ball Bearings for the convenience of the retail trade and users in emergencies. Direct branches of United Motors Service are located in these 27 cities from which you can learn nearest source of supply:

Atlanta.....467 W. Peachtree St.	Milwaukee.....532 Van Buren St.
Boston.....39 Brighton Ave.	Minneapolis..10th St. at Harmon Pl.
Buffalo.....1127 Main St.	New Orleans.....944 St. Charles St.
Chicago.....2521-27 Wabash Ave.	New York.....252 W. 64th St.
Cincinnati.....807 Broadway	Oakland.....E. 12th and E. 8th Sts. (at 14th Ave.)
Cleveland...4019-4109 Prospect Ave.	Omaha.....2813-17 Harney St.
Dallas.....2820-28 Commerce St.	Philadelphia..1624 Hunting Park Blvd.
Denver....Ninth Ave. at Acoma St.	Pittsburgh.....418-20 Roup Ave.
Des Moines....Mulberry at 12th St.	Richmond.....1319-23 W. Broad St.
Detroit..495-99 Milwaukee Ave., W.	San Francisco..Van Ness at Clay St.
Indianapolis..961-63 N. Meridian St.	Seattle.....10th Ave. at East Union
Kansas City..2501-7 McGee T'fcway	St. Louis.....Locust at Jefferson
Los Angeles..1225-29 S. Grand Ave.	Toronto.....5 St. Albans St.
Memphis.....731-7 Union Ave.	

The New Departure Mfg. Co., *Division of General Motors Corporation*, Bristol, Connecticut; Sales and Engineering Offices at Detroit, Chicago, San Francisco.



Double Row

Single Row

Radax

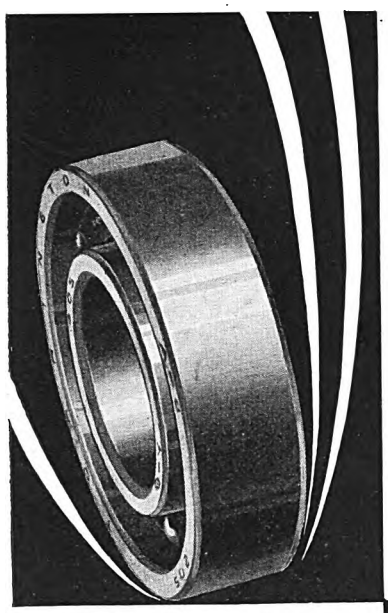
Shielded Type

Magneto

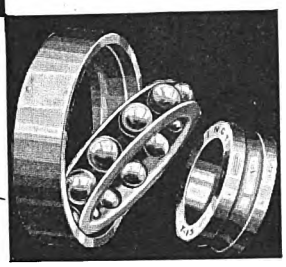
N-D-Seal

Digitized by Google

TORRINGTON BALL BEARINGS



OPEN AND CLOSED TYPES



Torrington Ball Bearings are ideal for the exacting requirements of automotive installations.

They are remarkably accurate . . . the result of over sixty years' specialization on high grade metal pieces of extremely accurate dimensions.

The thorough inspections given Torrington Ball Bearings are a further guarantee of satisfaction . . . inspections which start with the selection of material, and extend to daily checks of every measuring instrument, gauge and plug.

Torrington Ball Bearings operate with smoothness, and a minimum of friction . . . features essential to excellent automotive performance.

Let us send you without obligation a wall chart which specifies the correct ball bearings for generators, magnetos, fans and clutches of all popular makes of passenger cars, and a folder chart which gives ball bearing sizes for those applications on both passenger cars and trucks.

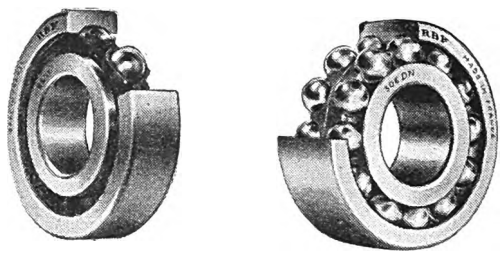
Uniform Bearings for every make of generator, starter, clutch pilot, etc., etc.

The Torrington Company
ESTABLISHED 1866
Torrington, Conn., U.S.A.

BIGGER PROFITS
No Extra Effort

Do you want to make bigger profits without extra effort? If you do, the easiest way is to make them on your purchases. Anything you save on your purchases is clear, net profit.

RBF



BALL BEARINGS

Single-row
Double-row
Open or magneto type
Radax type

FRONT WHEEL BEARINGS
For Chevrolet, Pontiac, Oldsmobile

RBF Ball Bearings are a high precision high quality product. Don't be misled into believing that you can get better bearings than RBF.

Write for the RBF proposition NOW and save on your purchases.

RBF BALL BEARING COMPANY
27 West 60th Street
NEW YORK

Digitized by Google

Extra Profits Without Effort

Distributors Everywhere
Supported By A Complete
Branch Warehouse System

Someone is always wanting a *genuine* Timken Bearing replacement for a car or truck.

This replacement business may not be very big—but it is *profitable* and certainly worth having—especially since you can get it without extra cost or special effort.

For the demand for *genuine* Timken replacements is already created—and it isn't necessary to carry a stock of bearings in order to profit by it. There's a Timken Authorized Distributor close at hand who does this for you.

He is ready to furnish *genuine* Timken replacements in all sizes for all cars—immediately on receipt of your wire or telephone call.

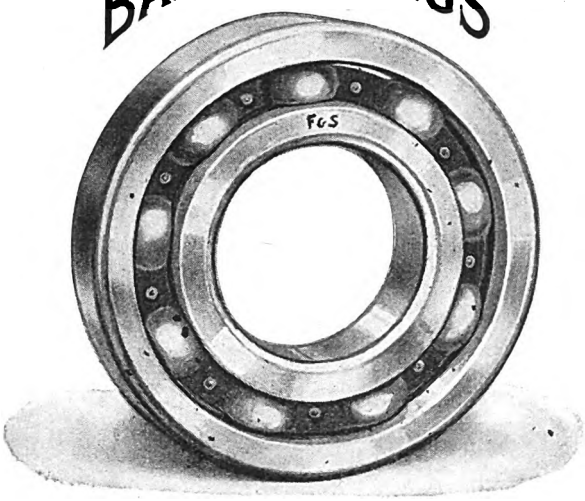
And only by replacing one *genuine* Timken with another can original bearing performance and dependability be restored and your customer's good-will preserved.

THE TIMKEN ROLLER BEARING
SERVICE & SALES COMPANY
C A N T O N , O H I O

TIMKEN
Tapered
ROLLER BEARINGS

Digitized by Google

F & S
BALL BEARINGS



A Product of Highest Excellence

When a car, a truck, a motorcycle, or a piece of machinery requires a new ball bearing, only the best will do—only a bearing whose close adherence to standard dimensions will compensate for worn shafts, deflections and the wear of other parts. A greater burden is placed on a ball-bearing put in as a repair than is put on one installed in a new car or machine. Therefore only the best will do—only the sturdiest will stand up under such service, where the ideal conditions existing in a new vehicle are totally lacking.

Warehouse Stocks

We carry warehouse stocks at the following locations:

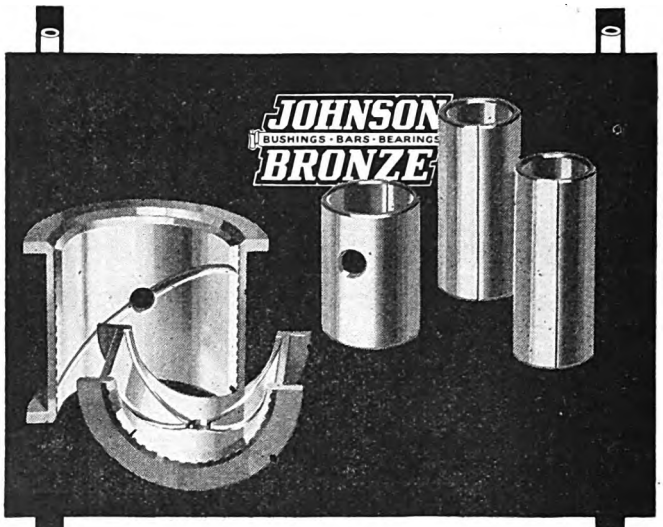
New York, N. Y., C & C Sales Corp., 1775 Broadway
Boston, Mass., Jacob A. Tigar, 1018 Commonwealth Ave.
Chicago, Ill., L. C. Smith Bearings Co., 2633 S. Michigan Ave.
Los Angeles, Cal., Motor Parts Co., 239 W. 15th St.
San Francisco, Cal., Kelly Ball Bearing Co., 651 Turk St.
St. Louis, Mo., Standard Auto Parts Co., 3200 Locust Blvd.

Prompt and efficient deliveries, therefore are guaranteed.

Inquire for our Ball Bearing Distributors proposition which you will find most attractive. All agents fully protected.

C & C Sales Corporation
GENERAL MOTORS BLDG.
Broadway at 57th Street
NEW YORK, N. Y.

Sole Importers for United States and the Dominion of Canada



JOHNSON BRONZE AUTOMOTIVE REPLACEMENT PARTS

Piston Pin, Tie Rod, Spring Eye, Steering Knuckle, Spring Shackle, Generator, Starting Motor Bushings, Special Miscellaneous Bushings and Parts, Sheet Metal Bushings, Bronze Back Babbitt Lined Bearings, Cored and Solid Bar Bronze, Rolled Sheet Metal Bushings.

. . . . . .

Johnson Bronze Bushings and Bearings are the selection of the motor vehicle builder and repair shop, year after year, because their top quality and utility are maintained continuously.

JOHNSON BRONZE CO.
NEW CASTLE, PENNA.

Warehouses:

CHICAGO
542 Washington Boulevard

KANSAS CITY
14th & Oak St.
Grey Bldg.

PHILADELPHIA
710 N. 17th St.

SAN FRANCISCO
548 Howard St.

BOSTON
86 Brookline Ave.

DALLAS
2717-19 Main St.

Export Address:
130 West 42nd St., New York City, U.S.A.
Cable JONBRON

JOHNSON BRONZE
BUSHINGS BEARINGS BAR BRONZE

Digitized by Google

O.K. Hi Lab

HILAB PRODUCTS

ALWAYS CARRY A SPARE

HiLab Products have always been a high quality line

Rubber Fan Belts
Leather Fan Belts
Rubber Fabric and Leather
Universal Joint Discs
Nuts, Bolts, and Washers
Leather Cone Clutch Facings
Roll Fan Belting
Generator and Magneto Discs
Generator and Pump Couplings
Air Hose
Car Heater Hose
Car Washing Hose
Hood & Cowl Lacing
Anti-Squeak Frame Padding
Tube Repair Kits
Adheso Friction Tape
Grapho Water Pump Packing
Trunk Straps
Tire Straps
Luggage Straps
Airplane Safety Belts

REAR VISION MIRRORS

For Passenger Cars
Trucks and Busses
Including Door Hinge
Pillar Mounting
Spare Tire and Fender Mirrors
Push Plates

Standard the World Over

ALWAYS CARRY A SPARE

HILAB PRODUCTS CO.

225-227 S. Meridian St.
INDIANAPOLIS, IND.

BRANCHES
New York Chicago
Detroit Los Angeles

HOLFAST

An unusually profitable line of rubber replacement items, sold through jobbers.

Merchandising helps include Belt Cabinets, Belt Hooks, Radiator Hose Display Racks, etc., with well chosen assortments.

Write for full information.

FAN BELTS
RADIATOR HOSE
AIR HOSE
TUBE PATCHES
UNIVERSAL DISCS
MAGNETO DISCS
FRICTION TAPE
GENERATOR COUPLINGS
WATER PUMP COUPLINGS
DROP CENTER RIM PROTECTORS
TOP DRESSINGS
TOP REPAIR
TOP PUTTY

MADE BY

HOLFAST RUBBER CO.

ATLANTA, GA., U. S. A.

NATIONAL STANDARD PARTS ASSOCIATION NSPA

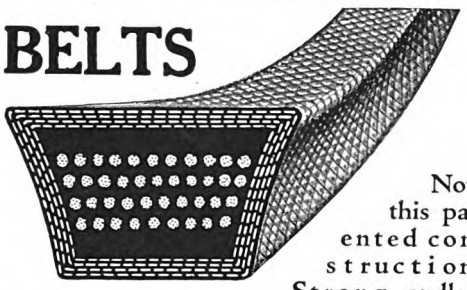
"Ask Your Jobber's Salesman!"

MOTOR AND EQUIPMENT ASSOCIATION M·E·A DIVISION A

Digitized by Google

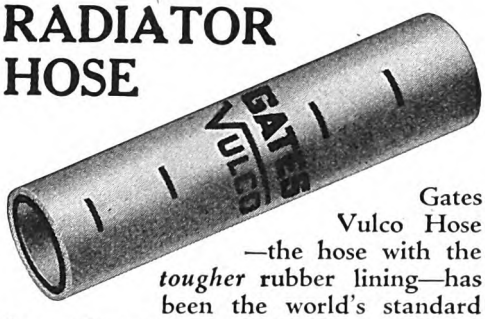
GATES VULCO

BELTS



Note this patented construction: Strong endless cords embedded in tough rubber. Around the whole, an easy flexing, bias-woven cover. The cord belt with the bias cover is the Gates patent. U. S. Patents, numbers 1,354,738 and 1,400,539, protect both the principle and construction of a V-belt having a core of strong endless cords and a bias-woven cover.

RADIATOR HOSE



Gates Vulco Hose —the hose with the *tougher* rubber lining—has been the world's standard for quality and the world's leader in sales throughout the past ten years. More than 125,000 dealers now recommend Gates Vulco Hose exclusively because they find it gives their customers the kind of service that wins their good will.

Other Products

Fan Belts	Car Mats
Radiator Hose	Battery Boxes
Tires	Garden Hose
Tubes	Air Hose
Tire Flaps	Welding Hose
Tire Patches of all kinds	Air-Brake Hose
Tube repairing materials	Generator Couplings
Tube Valve Bases	Hood Lacing
Tire Chains	Rubber Aprons
Tire Chain Adjusters	V-type Transmission Belting

Sold by Leading Jobbers

Gates Rubber Co.
Denver, U.S.A.
World's Largest Makers of Fan Belts

Durkee-Atwood
AUTOMOTIVE PRODUCTS

SELLING AND SERVING CONSISTENTLY

These products serve consistently because of the accuracy of their manufacture and the high quality of material used.

FAN BELTS (Flat and V)
RADIATOR HOSE
BLOWOUT PATCHES
GENERATOR COUPLINGS
TAPE—DURWOOD 3-A
TAPE—FRICTION
TAPE—MASKING
TUBES—MOLDED—POLED
TOP DRESSINGS
DRY CLEANER
POLISHES—AUTO BODY, NICKEL
ENAMELS, VARNISH
DURWOOD ENGINE HEATERS
SAFETY FROST SHIELDS
HYDRAULIC BRAKE COMPOUND
TOP CYLINDER LUBRICANT
PENETRATING OIL
OIL AND TAR REMOVER
PAINT AND VARNISH REMOVER
RADIATOR CEMENT
RADIATOR CLEANER
GASKET CEMENT
SHELLAC COMPOUND
VALVE GRINDING COMPOUND
TIRE AND TUBE REPAIR KITS
RUBBER CEMENT—TUBE PATCHES
LUBRICATING GRAPHITE
SPRING LUBRICANTS
FLOOR BOARD MATS (FELT) FOR FORD AND CHEVROLET
AIR DRAFT PEDAL SHIELDS FOR FORD AND CHEVROLET
FENDER SPLASH GUARDS

Manufacturers of
RIE NIE AUTO CHEMICAL PRODUCTS
SINCE 1910

DURKEE-ATWOOD COMPANY
Minneapolis, Minn., U. S. A.

Digitized by Google

Write us for AUTOMOTIVE JOBBERS BULLETIN No. 52

(A Monthly List of Bargains)

Accessories Replacements

"We purchase the surplus materials of automotive and parts manufacturers. We buy such huge volumes that we are able to offer these buys to you at a great saving. Our prices are the lowest. The quality of our lines is to be looked up to. We have the goods at the prices you want to pay. We buy only standard, nationally known merchandise.

"Each month we issue a new list of bargains. New items . . . new parts . . . new accessories . . . and we want you to write us and ask for that bulletin. We shall be glad to place you on our permanent mailing list without obligating you in any way."

▲

Timken Bearings
New Departure Bearings
Carburetors—All Makes
Bendix Drives
Trico Windshield Cleaners
Stewart Vacuum Tanks
Boyce Motometers
Stewart Speedometers
A.C. Speedometers
Northeast Speedometers
Morse Timing Chains
Switches
Spark Plugs
Coils
Body Hardware
Hub Caps

▼

MANUFACTURERS SURPLUS OUTLET CO.

542 S. DEARBORN STREET, CHICAGO, ILL.

TWO-FIFTY SUITS AND COATS $2.50

No Charge for lettering

LET YOUR MEN ADVERTISE YOUR BUSINESS

OVERNIGHT SERVICE!

Never before have you been able to buy these high grade garments at such a low cost!

TWO-FIFTY Garments will give long wear and comfort. Made from heavy weight, closely woven materials in eleven different colors. Cut extra full and roomy.

NO CHARGE FOR LETTERING in non-fadable red, blue, green, black, white, etc. Letters should not exceed 25 letters per garment.

Sizes 46 to 56 10% additional.

"Ask Your Jobber Salesman"

If your jobber cannot supply you, write us for details.

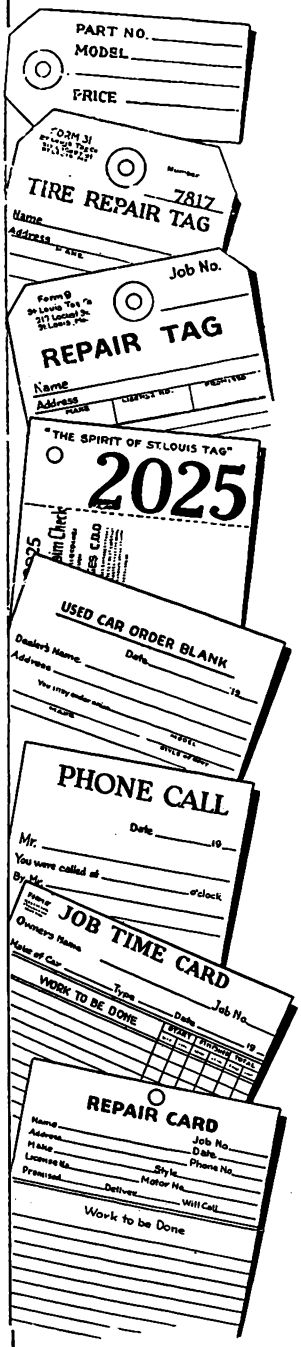
MOTOR SUIT MFG. CO.

Kansas City, Mo. Chicago, Ill.
Dallas, Texas Philadelphia, Pa.
San Francisco, Calif.

"The Home Of The One-Piece Suit"

Digitized by Google

ESSENTIAL IN YOUR BUSINESS



TAGS and FORMS

to fit your business

—at prices to fit your purse

No matter how efficiently your shop or plant is equipped—without a complete line of our "tags" and handy "forms" your business is seriously handicapped.

A List of Some of Our Forms

Battery Tags
Tire Tags
Storage Tags
Repair Cards
Repair Tags
Time Cards
Parts Tags
New Car Order Books
Used Car Order Books
Prospect Sheets
Phone Call Slips
Petty Cash Slips

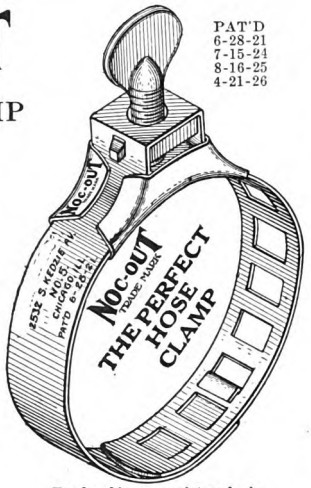
A convenient sample folder will be sent free on request.

ST. LOUIS TAG COMPANY
217 Locust St. St. Louis, Mo.

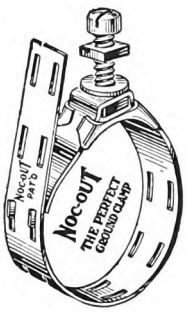
SELL NOC-OUT PRODUCTS IT PAYS

NOC-OUT TRADE MARK
HOSE CLAMP

With the THUMBSCREW for use on autos, trucks, tractors, airplanes or where ever adjustable clamp is needed. Rust-proof, trouble proof and a tight connection all the time.



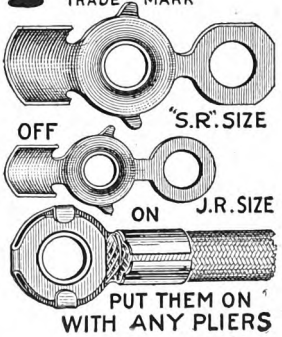
Trade Mark registered in U. S. Patent Office



NOC-OUT TRADE MARK
GROUND CLAMP

Noc-out Ground Clamps provide a positive connection, as it grips the complete circumference of the pipe. The end of the screw through the bridge IS POINTED and digs into the pipe, cutting through rust or paint, making a positive connection.

"TAB" SOLDERLESS TERMINAL TRADE MARK



"Tab" Solderless Terminals, put them on with pliers—no soldering necessary. Made in two sizes Sr. and Jr., each size packed 100 in a box. The Sr. is 1⅜ inch over all and has a 3/16 hole. The Jr. is 1 inch over all and has a 5/32 hole. The Sr. is for all high tension wire such as spark plugs, coils, etc. The Jr. is for low tension, dry batteries, "B" batteries, switches, etc.

YOUR JOBBER WILL SUPPLY YOU

WITTEK MFG. CO.
4305-9 W. 24th PLACE
CHICAGO, ILL.

Digitized by Google

BUMPER Specialists

Representing:

BIFLEX

BUCKEYE

BULLARD

BRIGHT

C. G.

DEFENDER

EATON

FEDERAL

HALLADAY

STEWART

U. S. E.

WEED

THIS Company was organized, in March, 1928, to provide one central, dependable source of supply for all bumpers and bumper parts. This specialization has resulted in a large volume of business, permitting a supply of bumpers of all types for all cars and an enormous stock that assures fast service on all replacement bumper parts, including many parts that we can manufacture even though they were long since considered obsolete and discontinued by their original manufacturers.

We have published data that simplifies the servicing of many types of bumpers and a great deal of additional data is being compiled.

While even this organization cannot guarantee to supply every requirement, our staff of Bumper Specialists is pleased to assist in the obtainance of particular bumpers and bumper parts in the very few cases where we might be unable to be of direct service.

BUMPERS
INCORPORATED
340 WEST 70th STREET
NEW YORK

Digitized by Google

Crescent

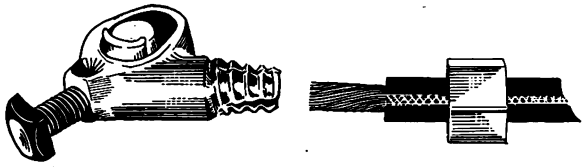
The complete wire line stocked at three points:

1809 Indiana Avenue
Chicago, Illinois

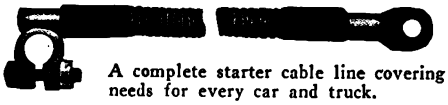
2805 Commerce Street
Dallas, Texas

Or direct from the factory at
116 Elm Street
Providence, Rhode Island

Full and complete catalogue pages gladly furnished for your salesmen catalogues.

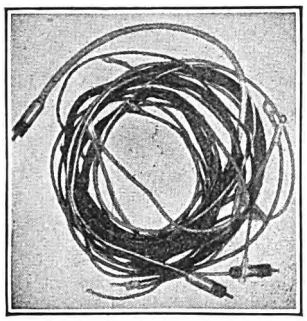


CRESCENT Patent Solderless Terminals end all terminal troubles. Number 71 wrench connects quickly or releases instantly. Defies corrosion, outwears three ordinary battery terminals.

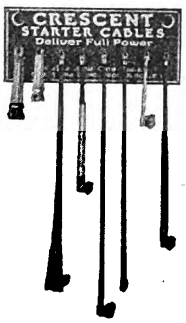


A complete starter cable line covering replacement needs for every car and truck.

Ford and Chevrolet Wiring Assemblies both for Model "T" and Model "A" Ford Cars; also 4 and 6 cylinder Chevrolet Cars.



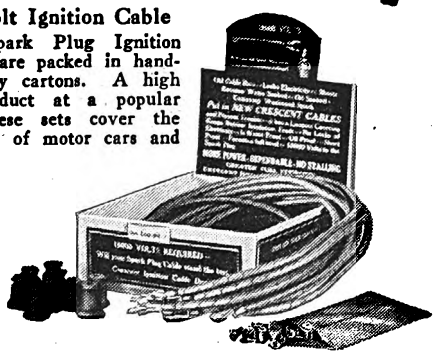
Ignition Cable can be had on 100 foot spools, in coils, or on display boards.



Crescent Starter Cable Display Racks furnished free.

25,000 Volt Ignition Cable

Crescent Spark Plug Ignition Cable Sets are packed in handsome display cartons. A high quality product at a popular price. These sets cover the entire range of motor cars and trucks.



Crescent Automotive Cable Company

(CRESCENT BRAID, Inc.)
(Established 1916)
PROVIDENCE, R. I.

Makers of FORD AND CHEVROLET LOOMS, STARTER CABLES, IGNITION CABLES, IGNITION CABLE SETS, RADIO CORDS AND CABLES.

EXPORT OFFICE:
280 Broadway
New York, N. Y.

HYGRADE PRODUCTS CO.

The Line Jobbers Push

WHY?

ORIGINAL AND UNUSUAL

SPEEDOMETER SHAFTS

Standardized to 4 UNITS—takes the place of several hundred Shafts.

IGNITION CABLE SETS

and complete line of CABLE.
More profit to the Jobber.
Quality Wire.
Attractive Price to the dealer.

Replacement Parts for A-C FUEL PUMPS

AC Fuel Pumps are equipped on over 6,000,000 cars. The demand for repair parts is big. HYGRADE HAS PAVED A NEW FIELD for the JOBBER on REPLACEMENT PARTS for AC and STEWART-WARNER FUEL PUMPS, ALEMITE GASCOLATORS and FORD FILTERS.

Get your share of this business.

CARBURETOR SCREENS & FLOATS

Put up in small Assortments.
Solves the mechanic's problem.

IGNITION WRENCH KITS

UNDOUBTEDLY you know that HYGRADE MANUFACTURES the largest variety of IGNITION WRENCH KITS ranging from (six) to (twenty) pieces in each kit.

THICKNESS GAUGES

Exclusive Locking Feature Gauges in Various Sizes.

The Above is Listed in Catalog No. 17.

Get Acquainted with our complete line. Write for our catalog No. 18, consists of:

CLUTCH PARTS
BRAKE PARTS
RIM AND HUB BOLTS
CARBON BEARINGS
THROTTLE BALL JOINTS

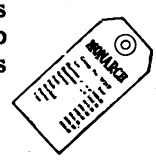
HYGRADE PRODUCTS CO.

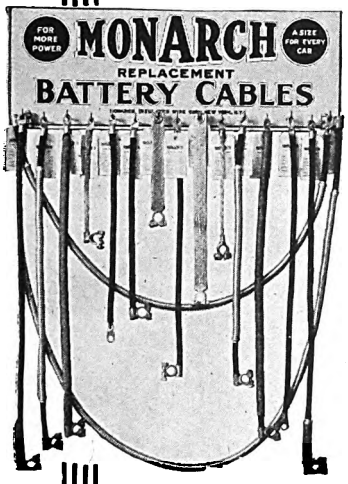
17 West 60th Street
NEW YORK

Digitized by Google

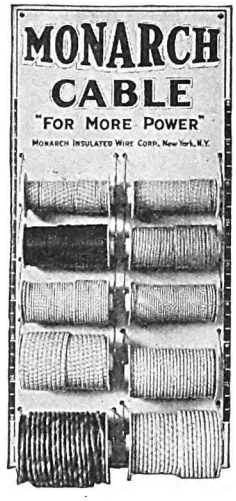
MONARCH
CABLES — WIRE

Every MONARCH cable is tagged showing its group number and the list of cars it will fit.





MONARCH Battery Cables are a complete line covering all popular makes. Assortments have been cut to a minimum to simplify replacements.



Assortments of Cable on spools are so arranged as to allow obtaining practically any desired types.

Each MONARCH Battery Cable is packed in an individual carton, showing its construction and length. Extremely attractive display boards and cabinets are furnished free.

MONARCH Ignition Cable sets are especially designed to withstand Corona, oil, grease, heat and moisture. For further particulars, write MONARCH.

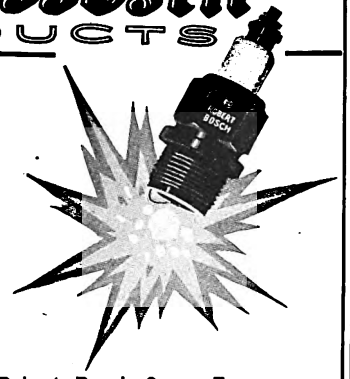
The complete line consists of
- Ignition, Starting & Lighting Cable
- Cable Sets
- Work or Inspection Lamps
- Storage Battery Cables
- Cable Sets for Fords

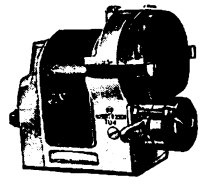
MONARCH
INSULATED WIRE CORP.
250 W. 54th ST. NEW YORK, N.Y.

Robert Bosch
PRODUCTS

Robert Bosch Pyro-Action Spark Plugs

The most profitable plugs for dealers, offering almost double the cash profit on every sale. The most economical plugs for motorists, for they retain their efficiency throughout the life of the average car. The longest-life plugs for fleet owners, too.





Robert Bosch Super-Energy Magnetos

Over 3,000,000 Robert Bosch Magnetos are used. The modern magnetos for buses, trucks, tractors, stationary engines, marine engines, etc.

Other Robert Bosch Products

Include Vibro-Balanced Horns and Generators, Semaphores, battery ignition systems, windshield wipers, spotlights, cable for ignition and starting and lighting, etc. For full information and prices address the nearest distributor listed below, or the Robert Bosch Magneto Co., Inc., 3601D Queens Boulevard, Long Island City, N. Y.

All Robert Bosch Products bear the full name ROBERT BOSCH and this trademark of Robert Bosch A. G.

AUTHORIZED DISTRIBUTORS

Allentown, Pa., Electrical Devices Co.
Atlanta, Ga., Auto Electric & Magneto Co.
Atlantic City, N. J., Automotive Electric Service
Baltimore, Md., Stephen Seth & Co.
Bangor, Maine..Arvid L. Ebbeson
Birmingham, Ala., Auto Electric & Carburetor Co.
Boise, Idaho.....Oakley & Sons
Boston, Mass., E. B. Atmus Co., Inc.
Bridgeport, Conn., Reuter Auto Electric Co., Inc.
Brooklyn, N. Y., Magneto Repair Co.
Buffalo, N. Y.....Peter Hettrich
Calgary, Alta., Canada....Hutton's
Camden, N. J., Camden Storage Battery Co.
Cedar Rapids, Ia., Rowe Electric Co.
Charlestown, W. Va., McFadden Ignition Co.
Charlotte, N. C., Mills Auto Service, Inc.
Chattanooga, Tenn., Lancaster Bros.
Chicago, Ill., Illinois Auto Electric Co.
Chicago, Ill., Motor Car Service Co.
Cincinnati, Ohio, Tri-State Ignition Co.
Cleveland, O., Cleveland Ignition Co.
Columbus, Ohio, Columbus Ignition Co.
Dallas, Texas.....J. J. Gibson Co.
Denver, Colo., Auto Electric Appliance Co.
Des Moines, Iowa, Motor Car Service Co.
Detroit, Mich., Motor Car Service Co.
Duluth, Minn., United Electric Service Co.
Elmira, N. Y., United Electric & Speedometer Corp.
El Paso, Texas, Randel Battery & Electric Co.
Erie, Pa...Briggs-Hagenlocher, Inc.
Goldsboro, N. C., Standard Automotive Parts Co.
Greensville, S. C., Battery & Electric Co., Inc.
Harrisburg, Pa., Penn Electric Sales Co.
Hartford, Conn., E. B. Atmus Co., Inc.
Houston, Texas, Chain Battery Systems, Inc.
Indianapolis, Ind., Equipment Service Co.
Jacksonville, Fla., Automotive Electric Service Station, Inc.
Kansas City, Mo., Electrical & Magneto Service Co.
Knoxville, Tenn., McNutt & Burks, Inc.
Lancaster, Pa., Ignition Engineering Service
Lexington, Ky., Kentucky Ignition Co.
Lincoln, Nebr., Parkhurst Auto Electric Co.
Little Rock, Ark...555 Incorporated
Long Island City, N. Y., Robert Bosch Magneto Co., Inc.
Los Angeles, Cal., Magneto Sales & Service Co.
Louisville, Ky., Koch Auto Electric Co.
Memphis, Tenn., Motor Batteries Co., Inc.
Miami, Fla., Electric Sales & Service Co., Inc.
Milwaukee, Wisc., Wisconsin Magneto Co.
Minneapolis, Minn., Fowler Electric Co.
Minneapolis, Minn., Reinhard Brothers Co., Inc.
Montgomery, Ala., Auto Electric Service Co.
Montreal, Que., Canada, International Electric Co.
Nashville, Tenn., Ewing Thomas Autoletric Co.
Newark, N. J....Tire Trading Co.
Newburgh, N. Y., J. G. Mezger, Inc.
New Haven, Conn., Auto Electric Sales & Service Co.
New Orleans, La.....Suhren, Inc.
New Rochelle, N. Y., County Motor Products, Inc.
New York, N. Y., General Auto Electric Co.
New York, N. Y., Manhattan Ignition Corp.
Norfolk, Va., Tidewater Electric Corp.
Oklahoma City, Okla., American Electric Ignition Co.
Omaha, Nebr., Carl A. Anderson, Inc.
Philadelphia, Pa., Motor Parts Co.
Phoenix, Ariz., Spaulding Auto Electric Co.
Pittsburgh, Pa., Keelan-Lyons Co.
Portland, Me...L. W. Cleveland Co.
Portland, Ore...Sunset Electric Co.
Port Richmond, S. I., Arc-Man Electric Service, Inc.
Providence, R. I., E. B. Atmus, Inc.
Raleigh, N. C....A. M. Tyner Co.
Reading, Pa., Berks Auto Ignition Co.
Regina, Sask., Canada, Magneto Service Station, Ltd.
Richmond, Va., Havens & Martin, Inc.
Roanoke, Va.....Auto Starter Shop
Rochester, N. Y., C. L. Hartmann Corp.
Salina, Kan.....Motor Service Co.
Salt Lake City, Utah, Motor Equipment Co.
San Antonio, Texas, Westbrook Carburetor & Electrical Service
San Francisco, Cal., Furrer & Uster, Inc.
Saskatoon, Sask., Canada, Lemery-Denison Electric, Ltd.
Scranton, Pa., J. B. Umberger Ignition Service
Seattle, Wash., Sunset Electric Co.
Shreveport, La., Chain Battery & Automotive Supply, Inc.
Sioux City, Ia., Arthur Electric Service
Springfield, Mass., E. B. Atmus Co., Inc.
Spokane, Wash., Automotive Electric Co.
St. Louis, Mo., Motor Electric Service Co.
Syracuse, N. Y., Al. Bergdorf Electric Service
Tampa, Fla., Electric Service Co., Inc.
Toledo, O., Fort Meigs Electric Co.
Toronto, Ontario, Canada, Auto Starter Co., Ltd.
Trenton, N. J.....Holmes, Inc.
Troy, N. Y., Ehrlich Electric Service
Tulsa, Okla., Electric & Magneto Co.
Vancouver, B. C., Canada Battery House, Ltd.
Washington, D. C., Miller-Dudley Co.
Waterbury, Conn., A. & P. Battery & Electric Co.
West Palm Beach, Fla., Sutcliffe's Automotive Electrical Service Co.
Wichita, Kans...The Whitlock Co.
Williamsport, Pa., Harer Auto Electric Co.
Winnipeg, Man., Can., Sharpe's Ltd.
Worcester, Mass., Jenkins & Robinson, Inc.
Yonkers, N. Y., Automotive Ignition Service

Digitized by Google

AMERICAN BOSCH COILS

DEPENDABLE HIGH TENSION IGNITION

TC-30
STANDARD
6 volts
With Mounting Bracket
$3.50

GENERATOR BRACKET

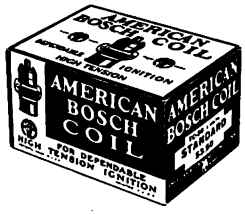
FLANGE BRACKET

BASE BRACKET

TC-68U
MULTI-SPEED
6 volts
With Mounting Bracket
$5.50

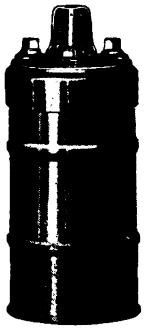
TC-30U
UNIVERSAL
6 volts
With Mounting Bracket
$3.50

IGNITION CONDENSER 75c



Coils are packed in an attractive three color display package

A New Coil Series!



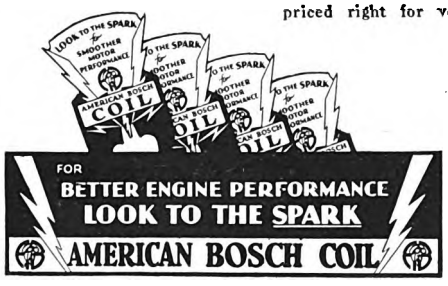
TC-128U
MULTI-SPEED
12 volts
With Mounting Bracket
$6.00

LOOK TO THE SPARK

Completely illustrated Sales folders

A New Campaign to put new profits on your ledger

Here's a new line of American Bosch Coils improved in design and performance. This new series of American Bosch Coils consists of a Standard 6 volt coil, a Universal 6 volt coil, a Multi-Speed 6 volt coil and a Multi-Speed 12 volt coil. The Standard and Universal coils are recommended for engines operated at normal speeds. The Multi-Speed coils have been designed for high speed car and bus motors and for the special requirements of engines used for heavy duty work. They are priced right for volume business.



Six-piece lithographed Window display.

AMERICAN BOSCH MAGNETO CORP. CMG-10-30
Springfield, Massachusetts, U.S.A.

LET'S HAVE THE WHOLE STORY ON THIS NEW COIL.

NAME.....

ADDRESS.....

CITY.....*STATE*.....

Rajah Solderless Terminals

WITH BAKELITE FERRULES

will help you to

Increase Your Sales

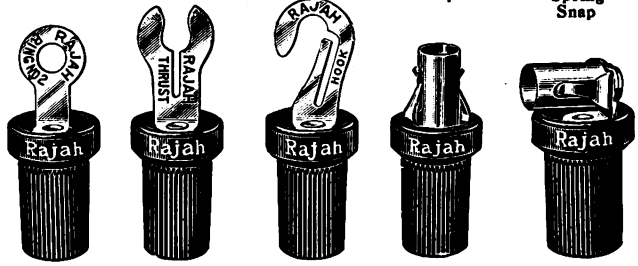
More manufacturers and dealers bought Rajah Solderless Terminals last year than in any two previous years combined.

The Rajah Solderless Terminal has been designed to give the best possible electrical connection, permanent and efficient at all times, without the use of a soldering iron or other tools.

Your two hands are the only tools you need.

The Rajah Solderless Terminals are made in five (5) styles, No. 2 RING, THRUST, HOOK, SPRING SNAP and ANGLE SPRING SNAP; and furnished with five (5) sizes of Ferrules. In ordering, be sure and state which style and size of ferrule is wanted. See ferrule sizes illustrated below. They are packed 50 to a box.

No. 2 Ring | Thrust | Hook | Spring Snap | Angle Spring Snap



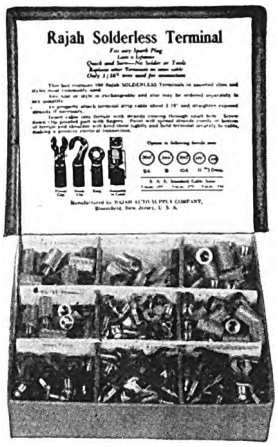
No. 2 Ring ..... each $ .12
Thrust, Hook and Spring Snap ..... each .15
Angle Spring Snap ..... each .20

Furnished only in following ferrule sizes.

9A 9 10A 11 #5 DRILL

For 5 m.m. cable use No. 5 drill, 7 m.m. use No. 11, 9 m.m. use No. 9A

RAJAH DISTRIBUTOR TERMINALS
—for 7 m/m Cable only—
Price ..... **each $ .03**



BOXES ASSORTED RAJAH TERMINALS

Solder Type—Box contains 108 Rajah Clip Type and 20 Rajah Ring Type.

List Price $11.50

Solderless Type with Bakelite Ferrules—Box contains 100 assorted terminals which include the popular styles and sizes; for Garages and Service Stations.

List Price $14.40

Also manufacturers of Rajah Spark Plugs, Rubber Spark Plug Hoods and Wire Terminal Nipples.

The RAJAH Company

Bloomfield N. J.

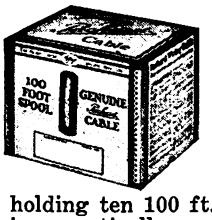
Digitized by Google

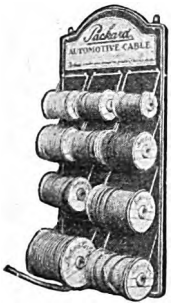
Packard
CABLE PRODUCTS

For over a quarter of a century the recognized leader in the field. Now, the world's largest exclusive manufacturer of automotive cable. Packard Cable is guaranteed to be of the very finest quality.

Packard Spool Cable

There is a standard size and style of Packard Cable for every requirement. Furnished on 100 ft. spools in individual shelf cartons.





Deluxe Merchandiser Assortment

A self-selling display holding ten 100 ft. spools. Permits rewiring practically any car. Includes:

High Tension	7 mm. Plain
High Tension	7 mm. Lac-kard
High Tension	9 mm. Lac-kard
Low Tension	5 mm. Lac-kard
Generator Circuit	12 ga. Brd.
Headlight	14-1 Arm.
Horn, Tail and Spot Lights	16-1 Arm.
Tail and Misc. Lights	16-1 Brd.
Head Lights	14-1 Brd.
Dome and Spot	18-2 Brd.

Packard Lac-kard Ignition Cable Sets

Modern methods of merchandising ignition cable sets were originated and developed by Packard. Packard Lac-kard ignition cable is used as standard equipment on over 40 makes of cars, trucks, and buses as well as most of the important airplane motors.

Merchandiser

An attractive metal merchandiser serves all customers. Takes less than 2 feet of space. Rests on counter or hangs on wall. This nationally advertised cable SELLS!

Packard Group System Battery Cable

Packard merchandising leadership applies to battery cables, too. 48 items service all cars. *New* "Korelug" connection (patented). FULL SIZE NO. 1 GAUGE.

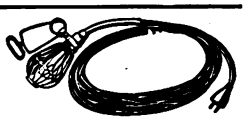
Merchandiser

Contains Group System assortment that will service practically all popular cars. A conserver of space. A silent salesman.

Packard Port-O-Lite (Patented)

New and improved. 25 feet of Flex-O-Cord with air-cooled reflector guard, special safety handle, universal clamp and interchangeable rubber attachment plug. Packed in individual cartons.

Sold by first class jobbers, everywhere.

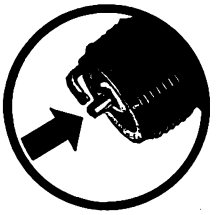


For Detail Information Write

The Packard Electric Company, Warren, Ohio.

AMERICAN BOSCH

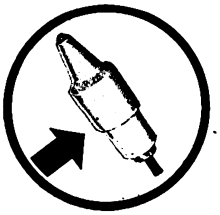
SPARK PLUG
A BETTER PLUG FOR MODERN MOTORS



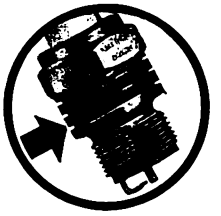
Its heavy electrodes assure long life—crescent shaped side electrode creates an intense spark; promotes uniform firing.

Air-tight sealing and rigid fitting insulator in its steel shell prevents loss of compression.

American Bosch Maselite insulator does not break or crack under excessive heat or vibration. Accurately machined shell reinforces the insulator, fits the motor head snugly.



Write us for prices and details of the American Bosch Spark Plug—learn how bus and truck fleets have cut operating costs by installing them.



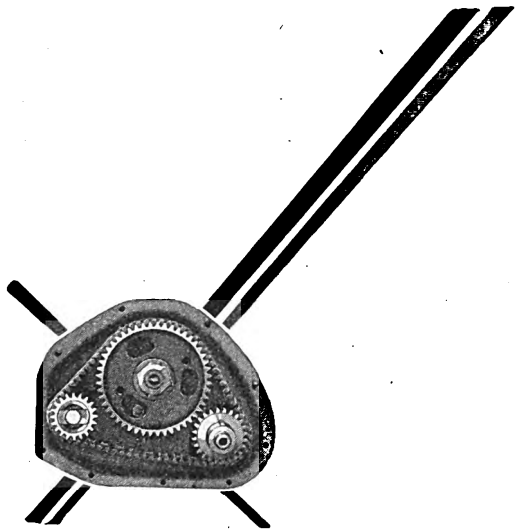
AMERICAN BOSCH MAGNETO CORP.

Springfield Mass.

Branches: New York, Chicago, Detroit, San Francisco

Digitized by Google

Something to be Proud of



The Performance of a LINK-BELT Automotive Silent Timing Chain

Built and backed by Link-Belt, an engineering organization that has served and grown with the Automotive Industry since timing chains were first used.

LINK-BELT COMPANY
INDIANAPOLIS

NSPA

4118-A

The only *outstanding* choice of automotive engineers

Engineers judge any product solely on its merits. The Morse Chain Company points with pride to the fact that genuine Morse Silent Chains are the outstanding choice of automotive engineers. ¶ Morse Silent Chains must be the best, or they would not be specified and chosen by so large a percentage of this group. The number of cars that are Morse equipped grows at a rapid pace from year to year—and so does the number of manufacturers who are making a good product better by installing Morse Chains.

MORSE CHAIN CO.

Main Office and Works: ITHACA, NEW YORK
Sales and Engineering Office: DETROIT, MICHIGAN

Passenger Cars

ADLER SIX
CADILLAC EIGHT (353)
CADILLAC V-16 (452)
CHRYSLER SIX (66)
CHRYSLER SIX (70)
CHRYSLER SIX (77)
CHRYSLER SIX IMPERIAL 80
CONTINENTAL MOTORS
DE SOTO SIX
DE SOTO ST. EIGHT
DODGE BROS. SIX
DODGE BROS. SENIOR
DODGE BROS. SIX D. D.
DODGE BROS. EIGHT D. C.
DURANT SIX (614)
DURANT SIX (617)
ESSEX SIX
FIAT SIX 5-90
HUDSON EIGHT
HUPMOBILE SIX-S
HUPMOBILE EIGHT C-100
HUPMOBILE EIGHT H&V 133
LA SALLE EIGHT (340)
LINCOLN EIGHT
OAKLAND V8
(A manufacturer of high grade Eights—name on request)
PEERLESS SIX (B)
PEERLESS SIX (c)
PIERCE-ARROW EIGHT (A)
PIERCE-ARROW EIGHT (C)
PONTIAC SIX
REO FLYING CLOUD (20)
REO FLYING CLOUD (25)
STEARNS-KNIGHT (8-90)
VAUXHALL
WHIPPET FOUR
WINDSOR 6-69

Commercial Cars

DODGE BROS. BUS
DODGE BROS. TRUCK
DOVER
FARGO CLIPPER
GENERAL MOTORS T-11
GENERAL MOTORS T-19
REO TRUCK F

MORSE
GENUINE *SILENT* CHAINS

Digitized by Google

MARVEL

WITH AUTOMATIC HEAT CONTROL

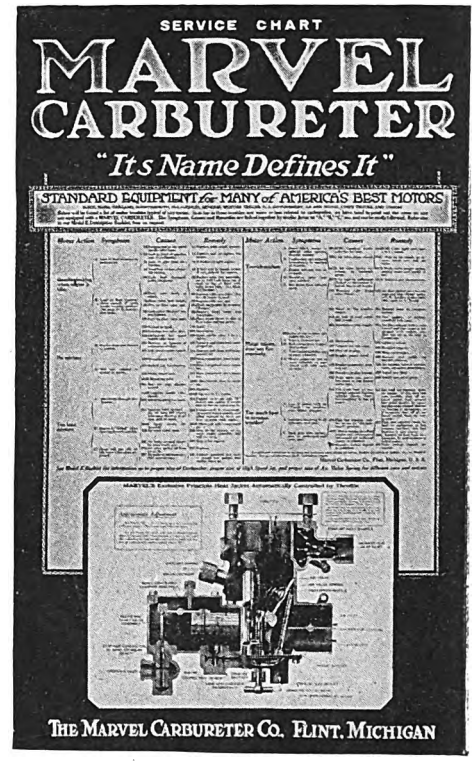
A COMPLETE Carburetion System

Distributors and dealers are making money with Marvel Sales and Service Stations and with our sales plans the profits will increase each year. Territories are being rapidly closed. Write today for complete information.

Marvel is Standard Equipment on—
Buick
Nash
Oakland
Pontiac
Hudson
Essex
G.M. Truck
Yellow Cab

MARVEL CARBURETER DISTRIBUTORS

Atlanta, Ga.—135 Ivy St., Alemite Lubricator Co. of Ga.
Baltimore, Md.—882-4 Park Ave., Stephen Seth & Co.
Birmingham, Ala.—404 S. 21st St., Alemite Lubricator Co. of Ala.
Boston, Mass.—335 Newbury St., Marvel Carbureter Sales Company.
Charlotte, N. C.—Woodside Motor Company.
Chattanooga, Tenn.—318 Market St., Hassler Brothers.
Chicago, Ill.—2427-31 S. Prairie Ave., Marvel Carbureter Sales Co.
Cleveland, Ohio—2013 E. 65th St., Fred Crandall Company.
Dallas, Texas—2210 Live Oak Street, Beach Wittmann Company.
Denver, Colorado—W. 13th and Acoma Sts., Auto Elec. Appliance Co.
Detroit, Mich.—3127 Jefferson Ave., E., Greenleaf, Incorporated.
El Paso, Tex.—Montana at N. Ochoa Sts., Western Battery & Magneto Co.
Fargo, N. Dakota—404 N. P. Ave., United Electric Service.
Jacksonville, Florida—925-27 Main St., The Lovejoy Company.
Kansas City, Mo.—1820-22 McGee St., The Beach-Wittmann Company.
Knoxville, Tenn.—307 N. Central St., McNutt & Burks, Inc.
Los Angeles, Calif.—1837 S. Flower St., Marvel Carbureter Sales Co.
Memphis, Tenn.—Union & Marshall Aves., McGregor Batt. Eng. Co.
Milwaukee, Wis.—2838 Fond du Lac Ave., Praefke Auto Elec. & Battery Co.
Minneapolis, Minn.—2901-3 Nicollet Ave., Fowler Electric Company.
Nashville, Tenn.—1227 Broad St., The Chapman Company.
New York City, N. Y.—242 W. 69th St., The Marvel Carbureter Sales Co.
Oklahoma City, Okla.—706 Broadway, M. E. Way Co., Inc.
Omaha, Nebraska—1514 Jones St., Carl A. Anderson, Inc.
Richmond, Virginia—612 Broad St., Richmond Batt. & Ign. Corp.
Salt Lake City, Utah—475 S. Main St., Automotive Elec. Service Co.
San Antonio, Texas—Westbrook Carbureter & Electric Company.
San Francisco, Calif.—116 Van Ness Avenue, Marvel Carbureter Sales Co.
Seattle, Washington—12th Avenue and Pine St., E., McAlpin-Schreiner Co.
St. Louis, Mo.—2129 Locust Blvd., Automotive Elec. Service Co.
Tulsa, Oklahoma—210 Tenth St., The Beach Wittmann Co.
Washington, D. C.—1019 17th St. N. W., Tompkin's Sales & Service.
Wichita, Kansas—225 N. Market St., Wilcoxson-Searcy Company.
Toronto, Ont.—252 Victoria St., Auto Electric Service, Ltd.
Vancouver, B. C.—1255 Seymour St., Standard Equipment Co., Ltd.
Winnipeg, Manitoba—Beattie Auto Elec., Ltd., 375 Hargrave St.

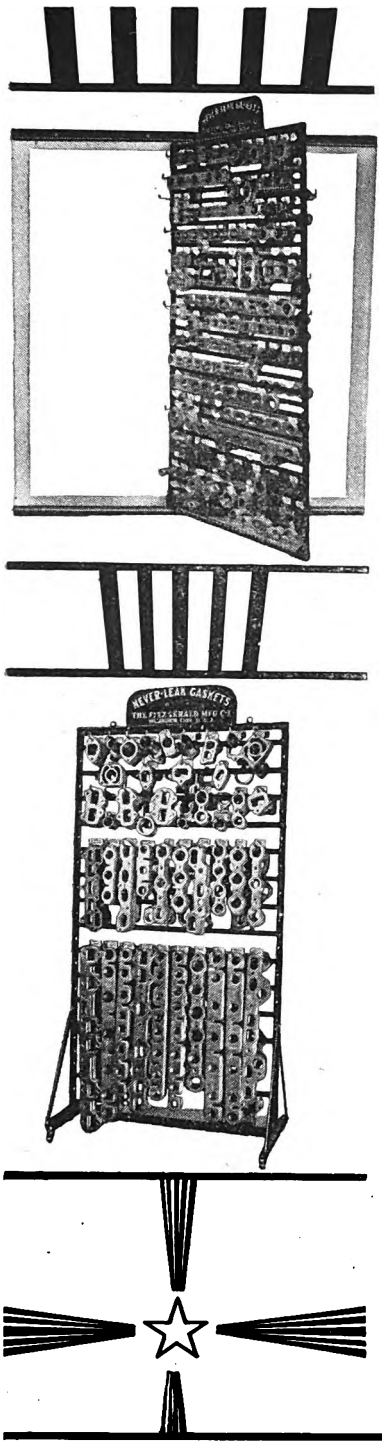

SERVICE CHART
MARVEL CARBURETER
"It's Name Defines It"
STANDARD EQUIPMENT for MANY of AMERICA'S BEST MOTORS
THE MARVEL CARBURETER CO. FLINT, MICHIGAN

Send for Your Copy of Chart and Descriptive Booklet

Marvel Carbureter Company

Flint Michigan

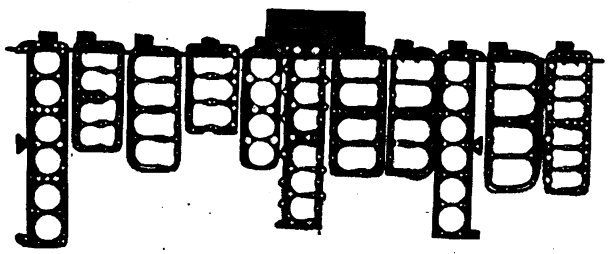
Digitized by Google



In the Fitzgerald line of Never-Leak Gaskets you find a complete service—thousands of gaskets of every type and material. Here are gaskets for cylinder heads—double construction (for high compression motors); manifold gaskets of special shape and design, as well as copper and asbestos, felt, cork, and composition gaskets.

A quarter of a century of gasket making has qualified Fitzgerald to take good care of your gasket requirements. Try us.

Also manufacturers of
PUSH BUTTONS SHIMS
WIRE TERMINALS
BATTERY CONNECTORS
STAR-RITE ELECTRIC CLEANERS



FITZGERALD
NEVER-LEAK GASKETS
The Fitzgerald Mfg. Co.
Torrington, Conn., U. S. A.

AUTOMOTIVE PACKINGS

Automotive Packings have decided advantages to repair and service shops.

There is only one item to purchase . . . only one to stock. There is no large investment or duplicated costs. There is no obsolescence or discontinued models to lose on. There is no delay in getting a less current size or make. You have in Tenax and Tanpac complete gasket coverage at a much less cost. At an added profit and equally satisfactory service.

ADVANCE PACKINGS

Lining, Brake (woven)
Lining, Brake for Fords
Packing, Asbestos
Packing, Compressed Asbestos
Packing, Rubber
Gaskets, Cork
Gaskets, Felt
Gaskets, Paper
Packing, Fibrous
Gaskets, Leather
Packing, Leather
Gaskets, Fibrous
Gaskets, Asbestos
Packing, Felt
Gaskets, Metallic
Wicking, Candle
Packing, Plastic Metallic
Wicking, Asbestos
Bestallic Woven Asbestos graphited packing
Adpasco Gasket paper
Adpasco
Pump rings
Packing, Pump
Asbestos Twist Packing
Tenax Sheet Padding
Tanpac Sheet Packing
Plastic Packing

INDUSTRIAL GASKETS

We pay particular attention to demands for industrial gaskets. Cutting all kinds of Fibrous materials in any shape or form. Send your blue prints and specifications. Allow us to help you solve your packing problems.

FELT

Accurately cut into Washers, Gaskets, Strips, Pieces of Special shapes and Sizes for every conceivable mechanical purpose.

Please send us your Samples to match or Blue Print specifications, and let us quote you on anything made of FELT.

ADVANCE
PACKING & SUPPLY COMPANY
808 W. WASHINGTON BLVD. CHICAGO, ILL.

Digitized by Google

Gasket Assortments

BLUE-PRINT TRAYS
PACKED IN INDIVIDUAL BOXES
READY FOR RESALE.

Gaskets cut from correct materials

depending on what is being used by the Car Manufacturer.

Cork, Asbestopak, Felt, Paper, Karropak Grafel, Wirepak, etc.

These Blue Print Trays, originated by Felt Products Mfg. Co., are generally accepted to be the best method for handling Gaskets cut from non-metallic materials.

Wire pegs, securely riveted to Blue Print Tray, always keep the stock in good shape. Each shelf box, has cover to protect the Gaskets, and labels with stock numbers on outside front of box.

An orderly, compact arrangement, with smaller Gaskets nested inside the larger sizes, makes it possible to stock more gaskets in less space than by any other method.

For the Jobber who wants to keep his stock in order, also for the Car Dealer, or Repair Specialist who will use a complete Assortment for any particular car or model.

Our new complete catalog indicates the tray number of each assortment so that all gaskets can be located quickly.

Alphabetical List

Car	Model	Tray No.	List Price
Buick	Master	T 84	15.47
Buick	Master	T 85	12.46
Buick	Master	T 86	12.70
Buick	Standard	T 87	15.32
Buick	Standard	T 88	12.43
Buick	Standard	T 89	11.30
Cadillac-LaSalle	341-353-328-340	T 81	13.25
Chevrolet	All 4 Cyl.	T 31A	10.46
Chevrolet	All 6 Cyl.	T 73A	15.05
Chrysler	All Mod.	T 42	10.85
Chrysler	All Mod.	T 46	10.67
Chrysler	All Mod.	T 69A	15.88
Continental	7R-6S	T 34	11.05
Continental	9L to 28L	T 35	15.00
Continental	7Z-6W	T 36	12.93
Continental	9J-9K	T 37	16.65
Continental	10E to 20E	T 68A	8.75
De Soto	All 6 Cyl.	T 74	12.84
Dodge	Victory & Standard	T 56	14.55
Dodge	All 4 Cyl.	T 57A	8.30
Dodge	Senior 6	T 59	9.50
Durant	65-66	T 80	7.60
Erskine	6 Cyl. (Cont. 8F)	T 33	14.80
Essex	1924-28	T 47	17.85
Essex	1928-30	T 72	16.60
Ford	Mod. T.	T 29	8.54
Ford	Mod. T.	T 30	10.09
Ford	Mod. A-AA	T 32A	10.60
Ford	Mod. A-AA	T 83	12.49
Graham-Paige	619-621-629	T 61	8.20
Graham-Paige	610-612-614-615	T 78	14.50
Graham-Paige	835-837	T 90	12.30
Hudson	Super Six	T 40A	18.75
Hudson	Super Six	T 41	16.46
Hupmobile	8 Cyl.	T 62	11.90
Hupmobile	All 6 Cyl.	T 65	11.32
Lycoming	GT-GS	T 66	16.34
Mack Truck	AC-AK-BGA-AB	T 200	17.57
Marmon	68-69-Roosevelt	T 76	12.48
Marmon	78-79	T 77	9.40
Marquette	All 6 Cyl.	T 82	8.50
Nash	Light 6—Stand. 6	T 91	9.58
Nash	Special	T 92	14.93
Nash	Advance	T 93	15.84
Oakland	6-54—All American	T 38	11.75
Oldsmobile	All 6 Cyl.	T 58	13.16
Overland-Whippet	All 6 Cyl.	T 54	9.00
Overland-Whippet	All 4 Cyl.	T 55	9.09
Packard	6 Cyl.	T 60	12.28
Plymouth	All Models	T 75	11.00
Pontiac	All Models	T 39	8.65
Reo	All Models	T 63	16.53
Star	4 Cyl.	T 52	10.47
Studebaker	Big 6—Spec. 6—Comm. 6	T 48	10.74
Studebaker	Light 6—Stand. 6—Dict. 6	T 49	14.13
Studebaker	President 8	T 50	9.20
Studebaker	Comm. 8—Dict. 8	T 79	8.34
White Truck	All Models	T 201	6.90
White Truck	All Models	T 202	13.96
White Truck	All Models	T 203	7.40
Willys Knight	70-70A-70B	T 64	9.00
Willys Knight	66-66A-64-67	T 67A	11.28

Tray No. T32A For Ford Model A

Tray No. T73A for Chevrolet 6 Cyl

Tray No. T38 for Oakland 6-54—All American

Tray No. T41 for Hudson Super Six

Digitized by Google

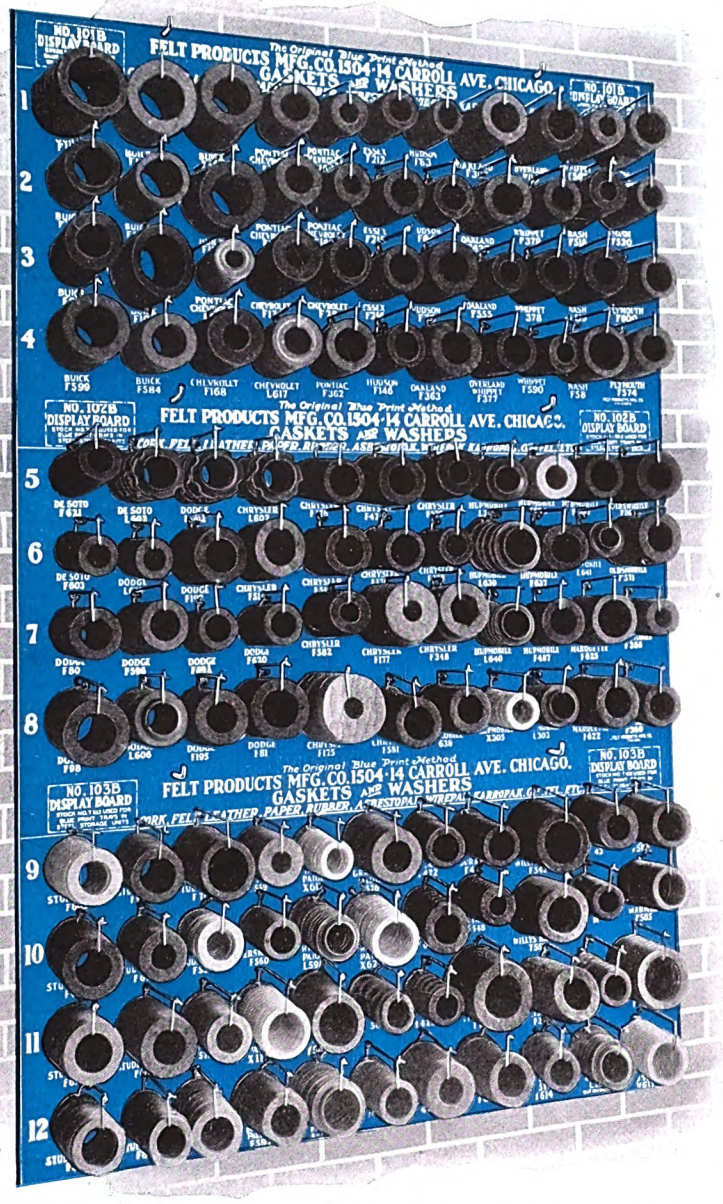


Illustration of Display Boards 101B-102B-103B on wall

FELT & LEATHER WHEEL WASHERS

New Display Boards for Parts Jobbers & Brake Stations

It is universally accepted that "goods well displayed are half sold". In the sale of Felt Washers, Display Boards furnished by Felt Products Mfg. Co. to Jobbers everywhere, have been and are a prominent factor.

When Jobbers have no wall space, these Blue Print Assortments are available in Steel Storage Units illustrated below.

We recommend Display Boards 101B-102B-103B for Jobbers or Brake Stations who require Wheel Washers for popular production cars only.

Note Contents of Each Assortment

Display Board 101B or Tray No. T101—*Buick, Chevrolet, Essex, Hudson, Nash, Oakland, Overland, Plymouth, Pontiac, Whippet.*

Display Board 102B or Tray No. T102—*Chrysler, De Soto, Dodge, Hupmobile 6, Hupmobile 8, Marquette, Oldsmobile.*

Display Board 103B or Tray No. T103—*Durant, Erskine, Graham Paige, Marmon 6, Marmon 8, Roosevelt, Star, Studebaker, Willys Knight.*

Display Board 104B or Tray No. T104—*Auburn, Cadillac, Gardner, La Salle, Lincoln, Packard, Peerless, Reo, Viking, Wolverine.*

Display Board 105B or Tray No. T105—*Chandler, Cleveland, Elcar, Falcon Knight, Jordan, Jewett, Kissel, Pierce-Arrow, Stearns, Stutz.*

Size of each Display Board width 42″, height 21″. Three Display Boards 101B-102B-103B require wall space 42″– x 63″.

LIST PRICES F. O. B. CHICAGO, ILL.

DISPLAY BOARDS		TRAYS	
No. 101B.....	$42.00	No. T101.....	$30.00
No. 102B.....	42.00	No. T102.....	30.00
No. 103B.....	42.00	No. T103.....	30.00
No. 104B.....	40.00	No. T104.....	28.00
No. 105B.....	40.00	No. T105.....	28.00
	$206.00		$146.00

3 Display Boards, 101B-102B-103B .....List Price $126.00
2 Display Boards, 104B-105B.....List Price 80.00

5 B–P Trays T101-T102-T103-T104-T105. List Price 146.00
(This price does not include Steel Unit)

NOTE ILLUSTRATION OF NO. F 22-5 Steel Unit 45″ wide, 23″ high, 19″ deep, with 5 steel drawers made to hold 5 trays. Complete data on label strips on front of each drawer. Numbers on labels correspond with numbers on Blue Prints inside. Washers held firmly in place with wire pegs securely fastened to each Blue Print Tray.

Jobbers or Brake Stations using old Display Boards 11A-11B-11C-12A-12B should bring their stock up-to-date. Write for our liberal offer to supply new Boards or trays, also revised catalog data.

We manufacture a complete line of Gaskets & Washers cut from non-metallic Gasket & Packing Materials, including Cork, Paper, Felt, Asbestos, Leather, also fibrous and asbestos Sheet Packing materials. Channel Felt, Anti-squeak, Body Lining, Felt Pads, Felt Wicks, Floor Pads, Upholstery Felt, Sheet Cork, Sheet Felt for every purpose.

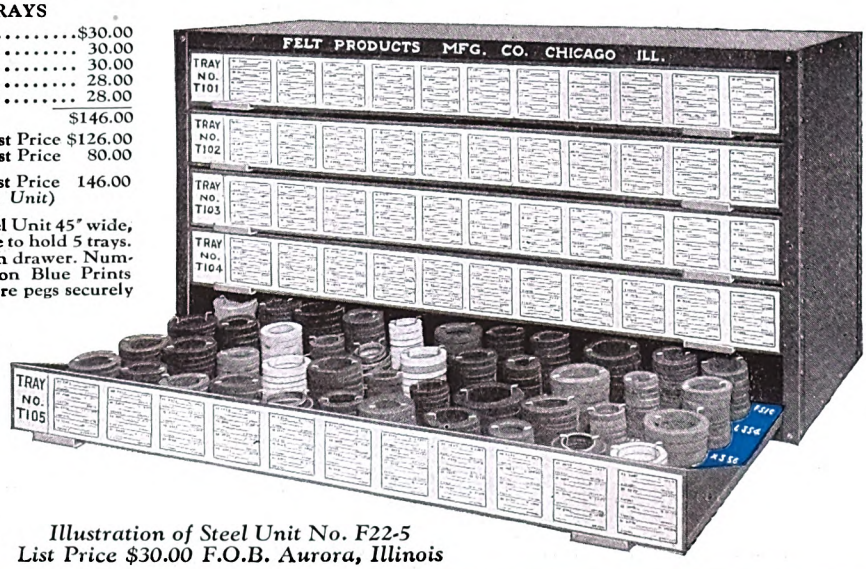
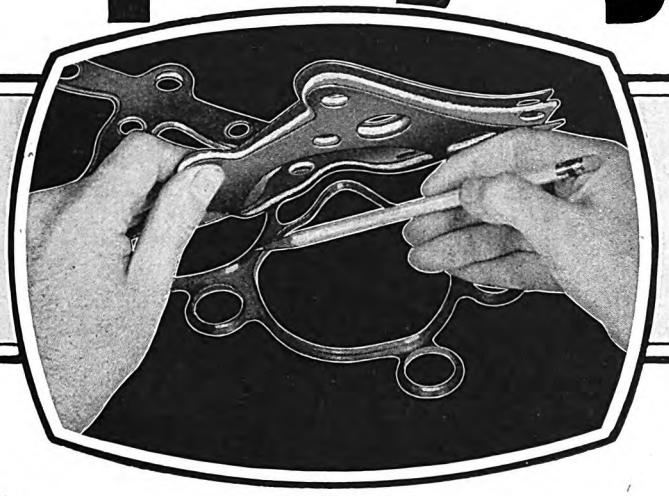


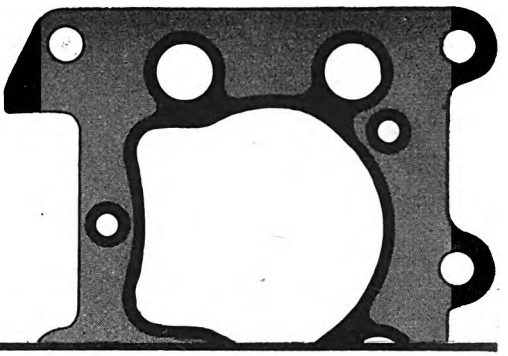
Illustration of Steel Unit No. F22-5
List Price $30.00 F.O.B. Aurora, Illinois

Digitized by Google

United Flanging

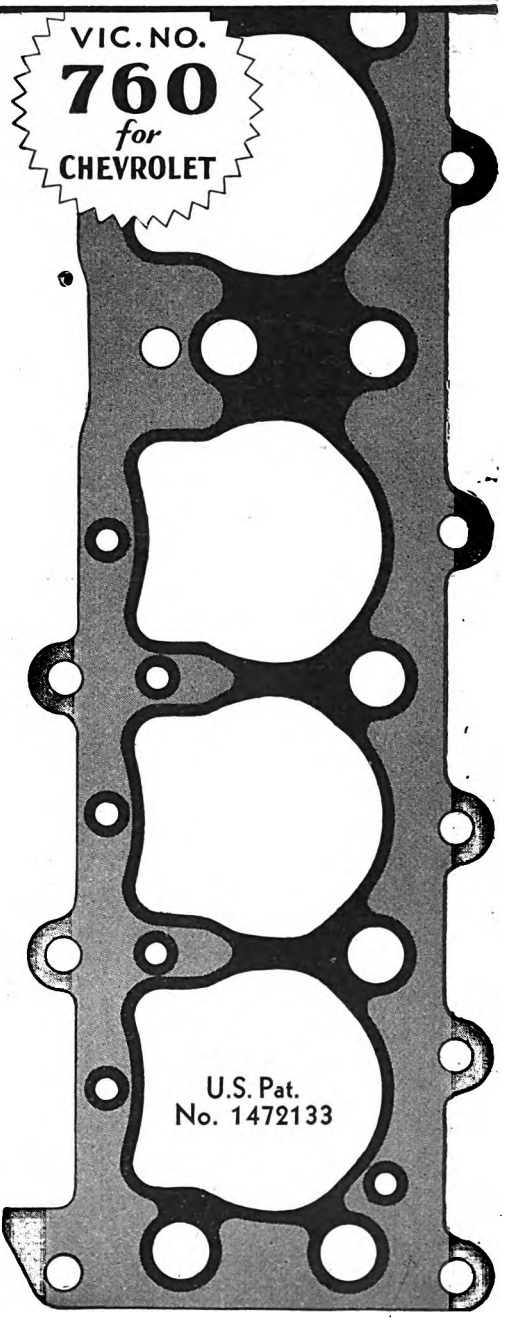


Strength at narrow walls of gasket with United Flanging.



GUARANTEE

The Victor Mfg. & Gasket Co. will replace, without question, any Victor gasket No. 760 for Chevrolet six (marked "Pat. No. 1472133") that blows out between combustion openings.



UNITED or one-piece flanging strengthens all of the narrow walls between combustion openings and water holes, forming a firm, smooth web of heavy-gauge copper — a reinforced gasket that assures superior performance and costs no more.

Gasket No. 760 (Chevrolet) with this exclusive Victor feature is available throughout the world under the guarantee appearing on this page.

Ask your Victor jobber

VICTOR MANUFACTURING & GASKET CO.
5750 Roosevelt Road Chicago, U.S.A.

WORLD'S LARGEST GASKET MANUFACTURER

VICTOR GASKETS

MADE IN U.S.A.

The World's Standard Gasket

CARE WILL SAVE YOUR CAR

© 1930 V. M. & G. Co.

- Copper asbestos gaskets
- Metallic gaskets
- Cork gaskets
- Fibrous gaskets
- Felt gaskets
- Asbestos gaskets
- Paper gaskets
- Steel shims and liners
- Connecting rod shims for Fords
- Fibrous packing
- Felt packing
- Asbestos packing
- Felt washers
- Brass and copper washers

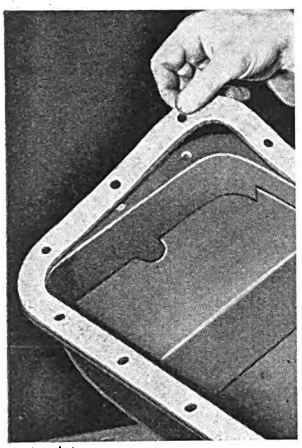
VICTOR—The Complete Gasket Service

516482 A

Digitized by Google

Armstrong's Cork Gaskets

THE BOLT HOLES ALWAYS LINE UP

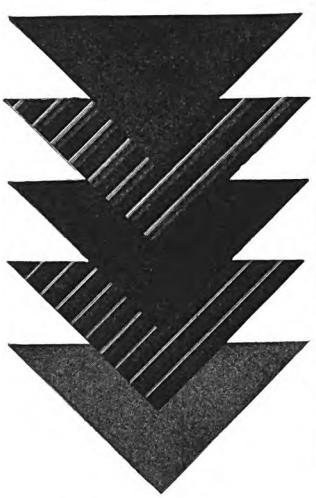


YOU can rely on Armstrong's Cork Gaskets every time. They always fit—perfectly. An exclusive Armstrong manufacturing process prevents them from shrinking, stretching, or becoming brittle. Every package carries a guarantee certificate attesting to that fact. Only Armstrong's Cork Gaskets can be so guaranteed against trouble.

Order them for stock in boxes of 10 or 50 or in convenient oil pan sets. Identify them by Armstrong's two notches cut in the edge and by the guarantee certificate.

Armstrong's Auto Mat
Armstrong's Linoleum

RUNNING BOARD COVERINGS



THERE is extra business—extra profit—in handling Armstrong's Running Board Coverings. It's surprising how many cars have worn out running boards. And it's easy for repair shops to get this business by suggesting the job when making out the service order.

Armstrong's AutoMat and Armstrong's Linoleum will not buckle or crack. They are easily installed with tools every shop has. Write for prices and samples of the various colors, type, and gauges.

Armstrong's (A) Product

ARMSTRONG CORK COMPANY
CORK DIVISION **LANCASTER, PENNA.**

Saves Time and Trouble

Vellumoid Gaskets make tight connections which you can positively depend on.

With a few yards of Vellumoid kept on hand, you always have a complete set of gaskets for the oil, gasoline, and water connections on any car, truck, bus or tractor you are repairing.

If you prefer Vellumoid Ready-cut Gaskets, you will find that they are always ready for use for they do not stretch or shrink.

Vellumoid Gaskets have just the right compressibility to take care of the unevenness in the flanges, and they stand the gaff of the hardest kind of service.

Easy on and off, as they require no shellac.

Ask your Jobber

VELLUMOID

THE (TRADE VELLUMOID MARK) REAL REPLACEMENT GASKET MATERIAL

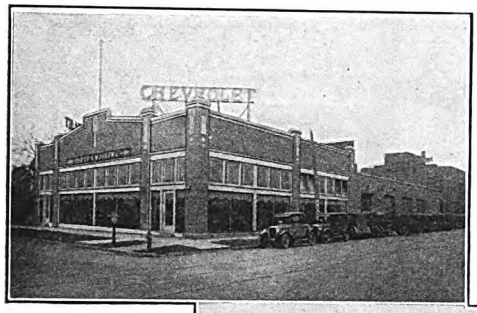
Keep on hand a supply of Vellumoid ready-cut oil pan and gear cover gaskets for the cars you service most often.

The Vellumoid Co., Worcester, Mass.

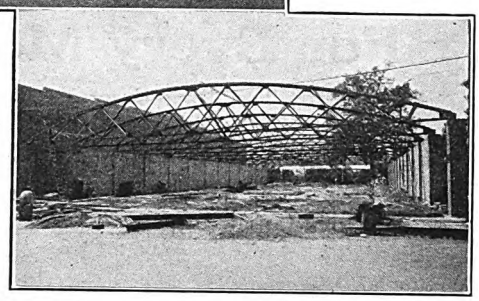
Digitized by Google

BUILDING A NEW GARAGE?
ASK MESKER FOR *FREE* PLANS

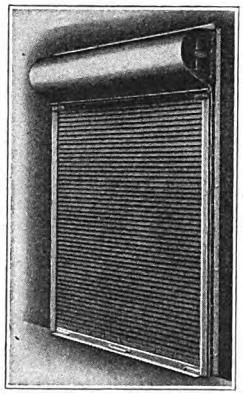
If you are planning to erect a new garage send us a rough pencil sketch showing the arrangement you have in mind. One of our garage design experts will go into your plans, analyze them from every angle, and an outline plan of your structure will be made showing exactly what we would recommend. The advice and suggestions of our garage experts involve no obligation on your part. We would like the chance to show you at what low cost a really good job can be done.



Garage
Peoria,
Illinois



Garage
Monroe,
Louisiana



Mesker designs are made according to the best engineering practice and include material which is amply strong for the safety and security of the structure. By using stock shapes, standard bowstring steel roof trusses, warehouse types of steel windows, stock sizes of steel doors, etc., we give you the most satisfactory job at a very low cost.

WE SHIP EVERYWHERE AND GET THE MATERIAL TO THE JOB IN RECORD BREAKING TIME.

Mesker Products for Garages

MESKER STANDARD BOWSTRING STEEL ROOF TRUSSES

STEEL WINDOWS — METAL ROOFING
STEEL DOORS — STORE FRONTS — GLASS, COPPER SETTING, MARBLE
SKYLIGHTS
ROOF VENTILATORS — FIREPROOF DOORS

FIREPROOF FLOOR CONSTRUCTION — MARQUISE CAST IRON LAMP STANDARDS

Mesker Products are in use in every State
Write for folder on Mesker Steel for Garages

GEO. L. MESKER & CO.
Evansville, Indiana

THIS → useful wall chart is sent you Free! It lists the Fostoria Fender Line giving complete data from which to order. A POST CARD will bring you this chart together with the name of the nearest Fostoria distributor.

FOSTORIA FENDERS

There's plenty of fender business—and there's a dependable source of supply for all the makes and models of fenders you have to replace. You can get them right away from your local Fostoria distributor. Each Fostoria Fender matches exactly the one it replaces. It is jigged for fit at the factory. The weight of metal, shape and finish duplicate the original.

All you need to take advantage of Fostoria fender service is a Wall Chart from which to order, and the address of the Fostoria Distributor. You get these from us direct. Write today.

FOSTORIA FENDER TOOLS

Every repair shop needs a set of fender repair tools — Fostoria Fender Tools, recommended by the builders of Fostoria fenders, are the ideal tools.

Can be purchased individually or in sets. Complete set No. T 300, in metal tote tray, containing 9 tools, costs $15.50. Set No. T 200, in Steel Tool Box, containing 15 tools, costs $29.00.

NEW!
THE FOSTORIA PRESTEEL CARRIER

The hit of the M. E. A.—
N. S. P. A. Show

The FOSTORIA PRESTEEL is a profitable handsome luggage carrier that combines all advantages known up to now with a number of completely new and exclusive features. Sells for $27.50 up. Write today for complete information about this line.

Complete Warehouse Stocks Maintained at:

DALLAS, TEXAS
Parts Warehouse Company, 2719 Main Street; Telephone 7-1544.

ATLANTA, GA.
Drennen & Zahn, Inc., 449 Marietta Street, Telephone Jackson A381.

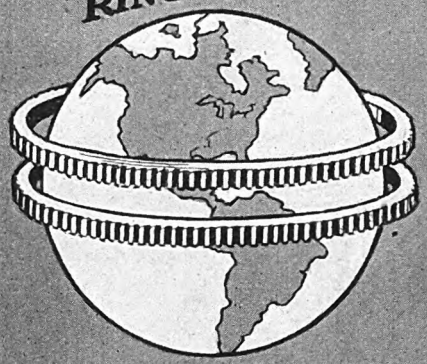
CHICAGO, ILL.
Parts Service Warehouse, Inc., 20 E. 18th Street, Telephone Calumet 4662.

LOS ANGELES, CAL.
Auto Parts Warehouse Company, 3221 S. Figueroa Street, Telephone Humbolt 4155.

THE FOSTORIA PRESSED STEEL CORP.
Dept. C M-2
FOSTORIA — OHIO

Digitized by Google

Excelsior
RING GEARS



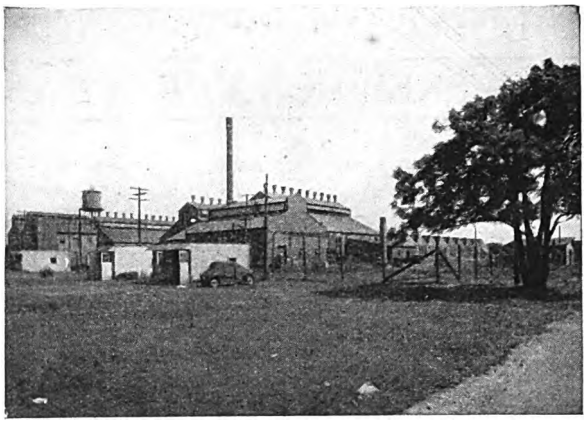
THE WORLD'S STANDARD

Saves Time— Saves Money

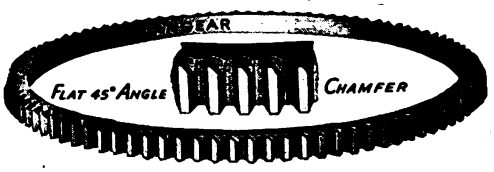
With Jobber service available all over the world, the Dealer doesn't have to carry a big stock of Excelsior Starting Ring Gears. Carry just a few for immediate replacement on the popular makes of cars and trucks and get immediate replacement service on the others from your Jobber.

With over 1,000,000 Excelsior Flywheel Starter Gears in service it gives you an indication of how well the trade accepts Excelsior as "The World's Standard." Ask your Jobber to tell you how quickly he can give you fill-in and replacement service. The line that's in demand—Excelsior.

SPRINGFIELD
MANUFACTURING CO.
SPRINGFIELD, OHIO



The great Logan Gear factory employs the most modern methods and equipment known, and offers practically unlimited production capacity.



Fly-Wheel Gears For Every Motor

Logan Fly-Wheel Ring Gears are obtainable for every automotive fly-wheel made. Not only all the popular makes and models can be serviced with Logan Gears, but the odd and infrequent jobs also. Write for the new Logan Gear Catalog or ask the leading wholesaler anywhere. It gives complete specification data, including turn diameters and suggested flat rate prices on all gears.

Mated Ring and Pinion Gears

Logan Ring and Pinion Gears for all automotive service replacements are internationally famous for their outstanding durability, accurate cutting and the absolute precision with which they are matched. The material is guaranteed 3½% nickel steel. Every set is rigidly inspected and individually tested for perfect tooth-bearing. Each is plainly marked with part number and ratio. Obtainable from leading wholesalers in all markets. Write for catalog.

THE LOGAN GEAR COMPANY
TOLEDO, OHIO

WAREHOUSES IN:

Brooklyn, N. Y.; Dallas, Texas; San Francisco and Los Angeles, Calif.; Kansas City, Mo.

Distributed in every market by wholesalers selected for their character and responsibility

Logan Gears

Logan Gears MATED RING GEAR and PINION

"SHRUNK ON" LOGAN GEARS FOR FLY WHEEL REPLACEMENT

Digitized by Google

BROWN LIPE CHAPIN

DIFFERENTIALS
•
BEVEL
DRIVE
GEARS

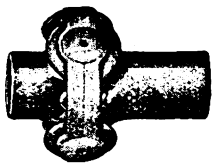
MANUFACTURED AT SYRACUSE, NEW YORK

Digitized by Google

OILTITE

ALMETAL UNIVERSAL JOINTS

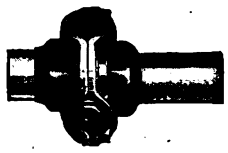
FOR FORD



For Model A and AA
No. A-7090—$2.50

For Model AA
No. AA-7090—$3.00

FOR CHEVROLET

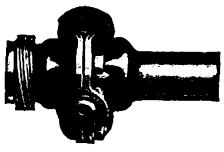


C-106—$4.75—Cars & Trucks—1916-24

C-109—$4.75—Cars—1925-29

C-110—$4.75—Trucks—1925-29

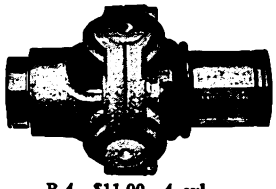
FOR PONTIAC



No. P-110—$6.75

Complete with Speedometer Gear as shown. Absolutely interchangeable.

FOR BUICK

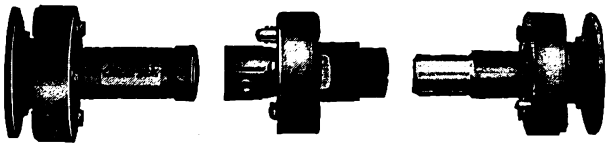


B-4—$11.00—4 cyl.—1922-4

B-6—$14.00—6 cyl.—1922-25

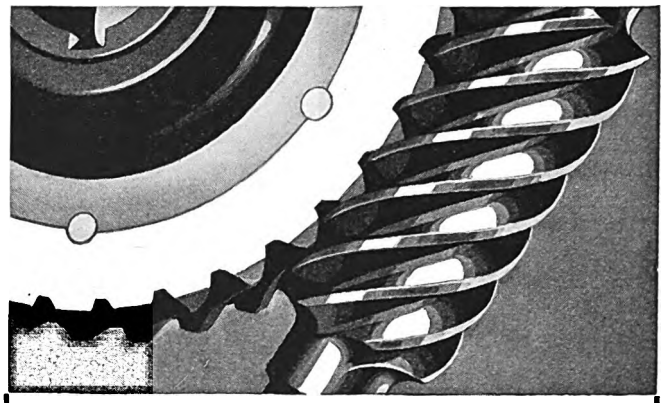
BS-6—$11.00—Std. 6—1925-28 and 116" W. B. Master 6

BM-6—$14.00—Master—1925-29

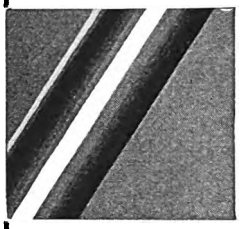


MAKE	MODEL	YEAR	FRONT JOINT		REAR JOINT	
			No.	Price	No.	Price
Dodge	128, Std. & Vict.	1927-8	22-308	$12.10	SS-412X	$12.00
Essex	6 Cyl.	1924-9	231	10.50	228	10.00
Hudson	All	1916-9	331	14.00	S-5-X	13.00
Hupmobile	A 6 Cyl.	1926-7	22-300	10.60	22B-302	9.70
Hupmobile	Century 6	1928-9	22-300	10.60	MM-77X	11.75
Oakland	6-54 & Six	1926-8	22-305	11.80	MM-77X	11.75
Oakland	A. A. Six	1928-9	22-305	11.80	2760X	10.50
Overland	6 and 93	1924-6	22-300	10.60	22B-300	9.45
Packard	All with Mech's	1926-30	32-503	16.50	S-5X	13.00
Pontiac	Big Six	1929	22-325	11.80	2760X	10.50
Studebaker	All with Spicer	1919-8	331	14.00	S-5X	13.00
Studebaker	All with Mech's	1926-7	32-503	16.50	S-5X	13.00
Studebaker	Dictator	1928	233	10.70	SS-412X	12.00
Studebaker	Dictator 6 and 8	1929	231	10.50	2574X	10.00
Studebaker	Commander 6 and 8	1929	233	10.70	SS-412X	12.00
Studebaker	President	1929	331	14.00	S-5X	13.00
Willys-Kt.	Std. and 70 to 2199	1925-6	22-300	10.60	22B-300	9.45
Willys-Kt.	70-2200 up, Sp. 6 & 70 A	1926-8	22-300	10.60	MM-77X	11.75
Willys-Kt.	70B and 70B Deluxe	1929	22-300	10.60	22B-300	9.45
Willys-Kt.	66 and 66A	1925-8	32-413	13.40	MM-22X	12.00
Willys-Kt.	66B	1929	32-412	13.50	MM-22X	12.00
Whippet 4	96	1926-8	22-201	8.90	22B-201	8.60
Whippet 4	321001 to 395596	1929	22-207	8.60	2762X	8.50
Whippet 4	395597 to 413172	1929	22-201	8.90	2762X	8.50
Whippet 4	413173 and up	1929	22-207	8.60	2762X	8.50
Whippet 6	93A and 98	1927-8	22-300	10.60	22B-300	9.45
Whippet 6	98A	1929	22-323	11.00	2763X	10.50

The Almetal Universal Joint Co.
1553 E. 55th St. Cleveland, O., U. S. A.
Export Dept., 30 Water St., N. Y. City



CLEVELAND
Automotive
WORMS and GEARS



For more than 15 years, Cleveland Worms and Gears have been chosen by automotive users for their high sustained efficiency, silent operation, smooth torque characteristics and long life.

Cleveland worms are of the straight body type with involute thread having a 30 degree pressure angle. They are forged from special low carbon nickel steel, carbonized, case hardened and ground all over, including flanks of threads.

Gear rims are solid castings of special-analysis gear bronze phosphorized and chilled. In large sizes gear rims of same bronze are shrunk and keyed on a cast iron center. Hobbing is performed on special machines built expressly to meet the exacting requirements of Cleveland standards.

Write us about quick service on many standard sizes and types of worms and gears for special applications.

CLEVELAND
WORM & GEAR CO.
3261 East 80th Street
Cleveland, Ohio

CLEVELAND WORM GEARING—
THE ULTIMATE DRIVE

Digitized by Google

GAS AND OIL LINE

Compression and Flared Tube Couplings

Fig. No.	Tube Diam.	I.P.T.
701	⅛"	⅛
701a	3/16"	⅛
701b	¼"	⅛
701b4	¼"	¼
701c	5/16"	⅛
701d	5/16"	¼
701e	⅜"	⅛
701f	⅜"	¼
701g	½"	⅜
701h	⅝"	½
701i	¾"	½

Fig. No.	Tube Diam.	I.P.T.
741	⅛"	⅛
741a	3/16"	⅛
741b	¼"	⅛
741b4	¼"	¼
741c	5/16"	⅛
741c4	5/16"	¼
741d	⅜"	⅛
741e	⅜"	¼
741f	½"	⅜
741g	⅝"	½
741h	¾"	½

LINCOLN

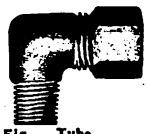


Fig. No.	Tube Diam.	I.P.T.
801	⅛"	⅛
801a	3/16"	⅛
801b	¼"	⅛
801b4	¼"	¼
801c	5/16"	⅛
801d	5/16"	¼
801e	⅜"	⅛
801f	⅜"	¼
801g	½"	⅜
801h	⅝"	½
801i	¾"	½

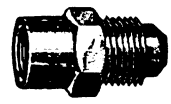


Fig. No.	Tube Diam.	I.P.T.
554	⅛"	⅛
554a	3/16"	⅛
554b	¼"	⅛
554b4	¼"	¼
554c	5/16"	⅛
554c4	5/16"	¼
554d	⅜"	¼
554e	7/16"	¼
554f	½"	⅜
554g	⅝"	½
554h	¾"	½

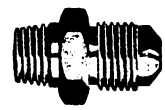


Fig. No.	Tube Diam.	I.P.T.
552	⅛"	⅛
552a	3/16"	⅛
552b	¼"	⅛
552b4	¼"	¼
552c	5/16"	⅛
552c4	5/16"	¼
552d	⅜"	¼
552e	7/16"	¼
552f	½"	⅜
552g	⅝"	½
552h	¾"	½

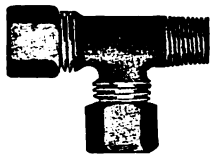


Fig. No.	Tube Diam.	I.P.T.
901	⅛"	⅛
901a	3/16"	⅛
901b	¼"	⅛
901c	5/16"	⅛
901d	⅜"	⅛
901e	½"	⅜
901f	⅝"	½
901g	¾"	½

Fig. No.	Tube Diam.	I.P.T.
760	⅛"	
760a	3/16"	
760b	¼"	
760c	5/16"	
760d	⅜"	
760e	½"	
760f	⅝"	
760g	¾"	

Fig. No.	Tube Diam.	I.P.T.
802	⅛"	
802a	3/16"	
802b	¼"	
802c	5/16"	
802d	⅜"	
802e	½"	
802f	⅝"	
802g	¾"	

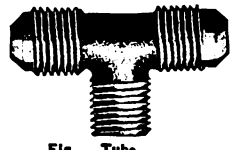


Fig. No.	Tube Diam.	I.P.T.
557	⅛"	⅛
557a	3/16"	⅛
557b	¼"	⅛
557c	5/16"	⅛
557d	⅜"	¼
557e	7/16"	¼
557f	½"	⅜
557g	⅝"	½
557h	¾"	½

Fig. No.	Tube Diam.	I.P.T.
556	⅛"	
556a	3/16"	
556b	¼"	
556c	5/16"	
556d	⅜"	
556e	7/16"	
556f	½"	
556g	⅝"	
556h	¾"	

Fig. No.	Tube Diam.	I.P.T.
750	⅛"	
750a	3/16"	
750b	¼"	
750c	5/16"	
750d	⅜"	
750e	½"	
750f	⅝"	
750g	¾"	

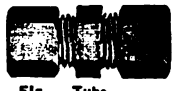


Fig. No.	Tube Diam.	I.P.T.
702	⅛"	
702a	3/16"	
702b	¼"	
702c	5/16"	
702d	⅜"	
702e	½"	
702f	⅝"	
702g	¾"	

Fig. No.	Tube Diam.	I.P.T.
811	⅛"	⅛
811a	3/16"	⅛
811b	¼"	⅛
811c	5/16"	⅛
811d	⅜"	⅛
811e	⅜"	¼
811f	½"	⅜

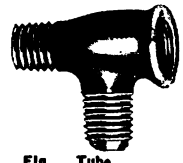


Fig. No.	Tube Diam.	I.P.T.
565	⅛"	⅛
565a	3/16"	⅛
565b	¼"	⅛
565c	3/16"	⅛

Fig. No.	Tube Diam.	I.P.T.
564	⅛"	⅛
564a	3/16"	⅛
564b	¼"	⅛
564c	5/16"	⅛
564d	⅜"	¼
564e	7/16"	¼
564f	½"	⅜
564g	⅝"	⅜

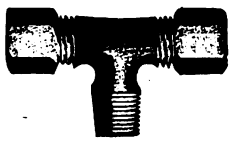


Fig. No.	Tube Diam.	I.P.T.
903	⅛"	⅛
903a	3/16"	⅛
903b	¼"	⅛
903c	5/16"	⅛
903d	⅜"	¼
903e	7/16"	⅜
903f	½"	½
903g	¾"	½

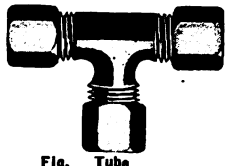


Fig. No.	Tube Diam.	I.P.T.
902	⅛"	
902a	3/16"	
902b	¼"	
902c	5/16"	
902d	⅜"	
902e	½"	
902f	⅝"	
902g	¾"	

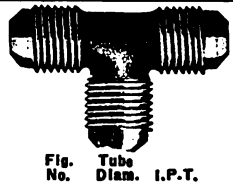


Fig. No.	Tube Diam.	I.P.T.
558	⅛"	
558a	3/16"	
558b	¼"	
558c	5/16"	
558d	⅜"	
558e	7/16"	
558f	½"	
558g	⅝"	
558h	¾"	

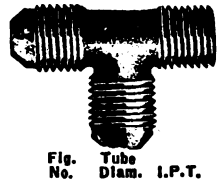


Fig. No.	Tube Diam.	I.P.T.
559	⅛"	⅛
559a	3/16"	⅛
559b	¼"	⅛
559c	5/16"	⅛
559d	⅜"	¼
559e	7/16"	¼
559f	½"	⅜
559g	⅝"	½
559h	¾"	½

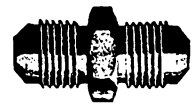


Fig. No.	Tube Diam.	I.P.T.
553	⅛"	
553a	3/16"	
553b	¼"	
553c	5/16"	
553d	⅜"	
553e	7/16"	
553f	½"	
553g	⅝"	
553h	¾"	

Fig. No.	Tube Diam.	I.P.T.
904	⅛"	⅛
904a	3/16"	⅛
904b	¼"	⅛
904c	5/16"	⅛
904f	⅝"	½

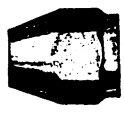


Fig. No.	Tube Diam.	I.P.T.
551	⅛"	
551a	3/16"	
551b	¼"	
551c	5/16"	
551d	⅜"	
551e	7/16"	
551f	½"	
551g	⅝"	
551h	¾"	

LINCOLN

AUTOMOTIVE BRASS FITTINGS

Sold Through Reliable Jobbers Everywhere

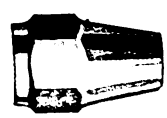


Fig. No.	Tube Diam.	I.P.T.
550	⅛"	
550a	3/16"	
550b	¼"	
550c	5/16"	
550d	⅜"	
550e	7/16"	
550f	½"	
550g	⅝"	
550h	¾"	

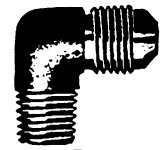


Fig. No.	Tube Diam.	I.P.T.
555	⅛"	⅛
555a	3/16"	⅛
555b	¼"	⅛
555c	5/16"	⅛
555c4	5/16"	¼
555d	⅜"	¼
555e	7/16"	¼
555f	½"	⅜
555g	⅝"	½
556h	¾"	½

LINCOLN

LINCOLN BRASS WORKS, DETROIT, MICH.

Digitized by Google

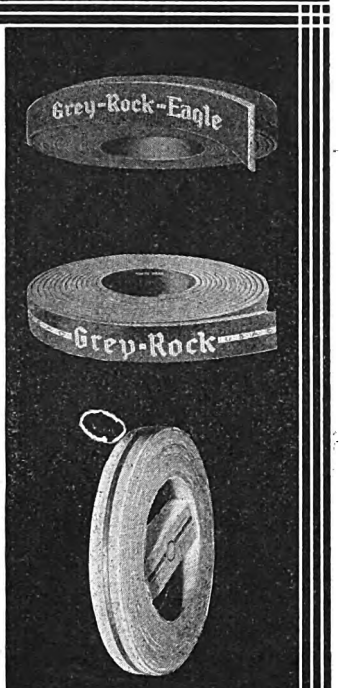
UNITED STATES ASBESTOS PRODUCTS

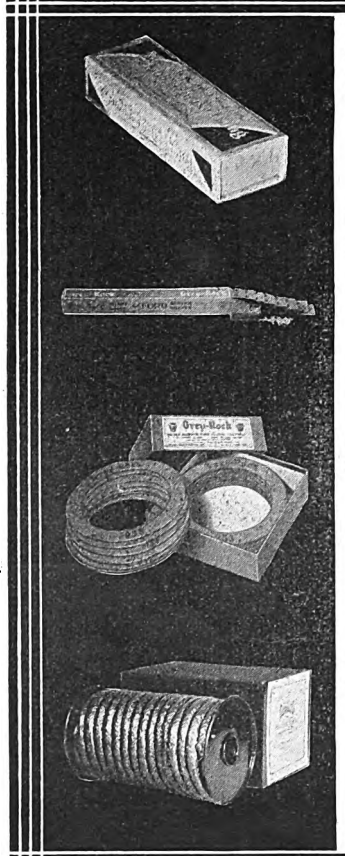
Grey-Rock Eagle Brake Lining
A radical advance in brake lining science—the "zinc alloy wire principle" (pat. appl'd for) —makes this remarkable lining ideal for internal expanding brakes.

Grey-Rock Brake Lining
The woven brake lining with the famous "smooth ground surface" (patented) for all types of brakes.

Grey-Rock Industro-Truck Brake Lining
For heavy duty service on large trucks and buses.

Grey-Rock Flexible Moulded Brake Lining
A flexible lining of the moulded type. Furnished in rolls for convenience and economy. An excellent lining for certain types of brakes.





U.S. Asbestos Moulded Brake Lining (in Sets)
Furnished in the proper sizes to fit cars on which moulded lining is original equipment.

Grey-Rock Brake Lining Sets For Ford and Chevrolet
Grey-Rock Woven Brake Lining, cut to the proper length, drilled and countersunk. The proper number of pieces are packed in neat cartons, complete with rivets for application.

Grey-Rock Clutch Facings
These woven facings have the "smooth ground surface" (patented) which assures smooth action and long life. Also available in the moulded types.

Duraco Automotive Packings
Red and Black Sheet, Valve Stem, Compressed Asbestos Sheet, Duroil Oil-Resisting Sheet. Highest quality and priced right.

UNITED STATES ASBESTOS DIVISION
of Raybestos-Manhattan, Inc.
MANHEIM, PA.

FERODO
REGISTERED
BRAKE LININGS

Generally Recognized as the world's standard for automotive transportation

FERODO AND ASBESTOS INCORPORATED

Manufacturers of Ferodo Bonded Asbestos Brake Lining in rolls, Ferodo Pat. *Die-Pressed* Brake Segments, Ferodo M-R Lining, and Ferodo M-R Brake Blocks.

Also Permanite Asbestos Sheet Packing

Factory and General Offices: **New Brunswick, New Jersey**

CM-10-30

Digitized by Google

RUSCO PRODUCTS

Rusco Brake Lining — Made from selected Canadian Crysotile asbestos, solidly woven on enormous 10-ton looms of our own design and construction. Provides quick-stop brake action and holds in wet weather as well as in dry.

Rusco-Ace Brake Lining—A tightly and solidly woven product for heavy duty service on passenger and commercial cars. Especially suited for four-wheel brakes. Gives extra long service and smooth, efficient performance in wet weather or in dry.

Benlock Brake Lining — Made from the same grade of asbestos as Rusco and impregnated with integral graphite treatment. Surface ground to within .0025 inch tolerance.

Roldak Brake Lining — A new solid woven product combining the ease of installation of roll type lining with the superior braking qualities of rigid-type lining. Applied like ordinary lining and then "cured" by driving car short distance with brakes partially on. Insures perfect-fitting, noiseless and durable job.

CLUTCH FACINGS

Made from the same quality solid woven asbestos used in Rusco Brake Lining. 100% asbestos, brass wire and treatment. Compressed to exact thickness under 500 tons pressure. Each type made with treatment best suited for that particular car or clutch. Engage smoothly, hold firmly. Where required, facings are drilled and countersunk at factory. Sold by stock numbers.

RUSCO DURAK BRAKESHOE LINERS

Durak Brakeshoe Liners are a new patented product for trucks, buses and pleasure cars. Contain 50% more asbestos per cubic inch than ordinary lining and are *guaranteed in writing to give twice average service.* Durak cuts brake maintenance costs in half, gives smooth and positive brake action. Made for over 3391 different installations on all leading cars and trucks. Passenger car sets individually boxed, complete with rivets, and those with standard drilling dimensions are countersunk and drilled at factory. All sets marked by stock number, make and model of car or cars.

DATA BOOKS

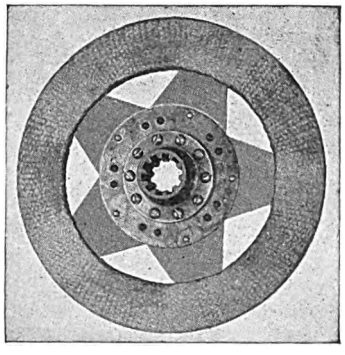
Complete and up-to-date data books on all Rusco Products are furnished free to Rusco dealers and jobbers. Separate books are issued on the following: Fan Belts —Brake Lining—Clutch Facings —Durak Brakeshoe Liners—Flat Rate Data.

FAN BELTS

Flat and V Type

Rusco V Type fan belts are made of rubber and fabric, molded endless. Permanently flexible; hold their shape; not affected by oil and grease; resist heat to 300 deg. F. Rusco flat fan belts are woven endless, do not stretch and are waterproof. Attractive metal display cabinet furnished. Each belt plainly marked with stock number.

CLUTCH SPIDER



A new type clutch unit to replace the present metal plate and two facings found in single plate clutches can be furnished for Ford, Chevrolet, Model 20 Reo Flying Cloud, Chrysler 62 and Dodge Victory 6. Elimination of metal plate gives remarkable flexibility, extreme light weight and absorbs torque vibration, giving smoother action and longer service. Easy to install. No special tools or adapters required.

OTHER RUSCO PRODUCTS

Transmission Linings, Hood Lacing, Tire Straps and Towing Lines; Belting for Power Transmission, Elevating and Conveying, Tractor Belts, Iron-Man Endless High Speed Belts.

Rusco Aero Products—Aero Rings, Shock Cord, Aeroplane Fabrics, Safety Belts, Etc. Standard Equipment on Military and Commercial Aircraft.

For complete information and name of nearest jobber, write to factory or to any of our branches.

THE RUSSELL MANUFACTURING COMPANY, Dept. Q-14

Factories: Middletown, Conn. St. Johns, P. Q. Canada

Branches:

Atlanta
559 Whitehall St.
Phone, Walnut 3635

San Francisco
727 Van Ness Ave.
Phone, Ordway 0313

Chicago
1901 Indiana Ave.
Phone, Calumet 3011

Dallas
2208 Commerce St.
Phone, 7-6143

New York
51 Columbus Ave.
Phone, Columbus 5031

Detroit
411-414 Interim Whse. Bldg.
Phone, Cadillac 3217

Digitized by Google

LATEX BONDED
...A New Standard in Brake Lining

A few months ago the Multibestos Company announced a new flexible moulded brake lining—Latex Bonded—backed by years of international research and a test performance record that was almost miraculous.

Overnight Multibestos L X became a merchandising success.

Why?

Multibestos L X through its Latex Bonding never becomes brittle through exposure, it will not swell perceptibly at any brake drum temperature, it is quiet and long wearing. The coefficient of friction remains uniform even after soaking in water.

Multibestos L X eliminates unprofitable "comeback" adjustments for the dealer. It offers the jobber a demand item of unusual sales appeal.

Add this feature to the long established superiority of Multibestos woven brake linings and clutch facings, and you will know why progressive dealers and jobbers are everywhere swinging to Multibestos.

MULTIBESTOS L X
LIFE SAVING BRAKE LINING

MULTIBESTOS COMPANY, Walpole, Mass.

BRANCHES OR SALES OFFICES

Chicago .....1233 South Michigan Ave.
Dallas .....2622 Cedar Springs
Detroit .....3-265 General Motors Bldg.
Nashville .....Nashville Trust Bldg.
Oakland .....4000 East 8th Street
Export Office .....461 Eighth Ave., New York, N. Y.

4 GATKE MOULDED BRAKE LININGS

STOP ANY LOAD ON ANY ROAD

GATKE ASBESGRAPHITE

Patented-Grooved! For years the most dependable brake lining, moulded for all automotive equipment . . . Self-lubricated. Minimizes scored brake drums and frequent brake adjustments. Operates silently—no chatter! Easy, instant response to brake-pedal pressure. GATKE MOULDED ASBESGRAPHITE—*the recognized aristocrat of brake linings!*

GATKE BRAKE BLOCKS

Moulded to conform to all standard sizes. Can be applied without change of regular equipment. Interchangeable with other types. Ask about GATKE Designs which increase friction contact area, giving greater brake power and wear resistance.

GATKE UNIVERSAL

An improved moulded brake lining for external or internal brakes. Flexible—conforms to every type of brake shoe and brake band. Just a mild brake-pedal pressure assures a quietly distinctive stop!—No grabbing or squeaking. Slow, even wear. Comes in 50-ft. rolls, all standard sizes—also packaged in sets, ready to put on.

GATKE UTILITY

A moulded brake lining for internal brakes. Its ready responsiveness gives real authority to brake-pedal pressure—the usual GATKE velvet stop—absolutely dependable! GATKE UTILITY Brake Linings are inherently tough and rugged, providing a brake service that costs less per mile . . . This semi-flexible moulded lining furnished in rolls containing five 10½ foot lengths, which may be cut as desired—or in the carton containing a full set in cut lengths.

MAKE BAD BRAKES GOOD AND GOOD BRAKES BETTER

THOMAS L. GATKE
MANUFACTURER
2143 Builders Bldg. - CHICAGO

Digitized by Google

There is a J-M Brake Lining for every motor vehicle on the road . . .

Choose the Correct One from the J-M Chart

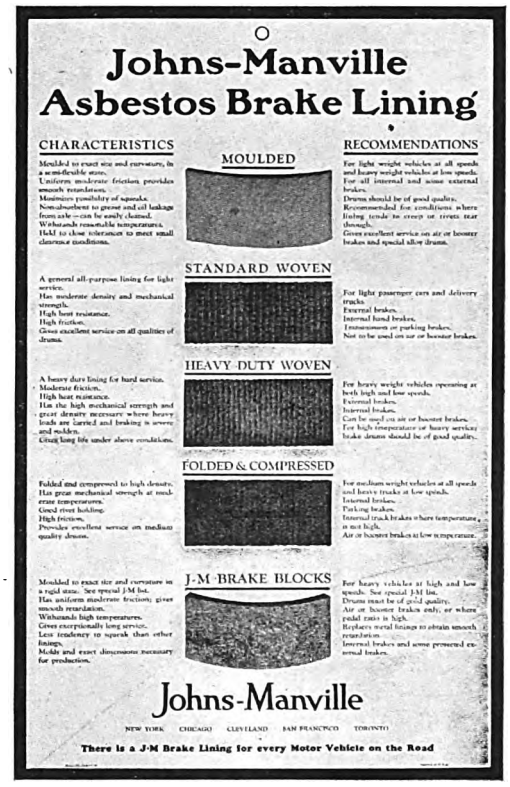
TRUCKS, buses, taxicabs, passenger cars . . . internal brakes, external brakes . . . slow speeds and fast speeds . . . high and low temperatures . . . hard drums and soft drums . . .

How are you to know what particular lining to use on each individual relining job? Which one is best suited for each different set of operating conditions?

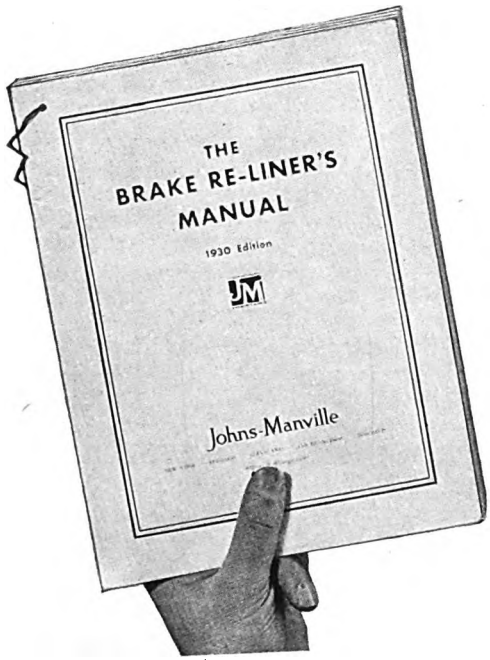
You'll find the answer in the Johns-Manville line of friction materials and in the J-M Chart of Recommendations. Five Johns-Manville Brake Linings meet every modern braking requirement and one of these has exactly the proper characteristics for any relining job that comes into your shop. No brake lining manufacturer can offer you a better or a more complete line of friction materials—or one in which there is greater opportunity for profit.

This handy wall chart lists the characteristics and recommendations for each type of J-M lining and makes it easy to turn out the kind of work that creates customer confidence and builds further business.

Ask your jobber's salesman for further information —or write direct to the nearest J-M office.



. . . and there is a solution for every brake problem in the new Brake Re-Liner's Manual . . .



THE most complete treatise on the subject of brakes ever offered the Service Station!

That is what Johns-Manville offers you in the 1930 edition of the Brake Re-Liner's Manual. This new book, available on request to all J-M Brake Service Stations, gives up-to-date relining and adjustment instructions for every popular type of braking system in use today. In its 116 pages you will also find helpful information on all sorts of brake problems, the cause of brake troubles, besides other practical data on modern methods of brake servicing.

The Brake Re-Liner's Manual is only one of the ways in which Johns-Manville works with its Service Stations. Monthly Brake Service Bulletins, the J-M Flat Rate Guide, and the J-M Automotive Data Book are other valuable forms of J-M Cooperation. And a comprehensive list of selling helps for reaching every possible prospect for brake service rounds out the most complete cooperative plan a brake lining manufacturer ever offered its Service Stations.

Write for full details—or ask your Jobber's Salesman.

Johns-Manville

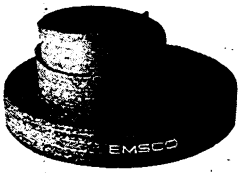
292 Madison Avenue, N. Y.

Chicago Cleveland San Francisco New Orleans

Digitized by Google

EMSCO

Automotive Products *are* DEPENDABLE

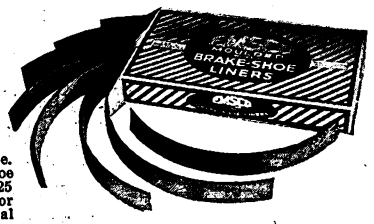


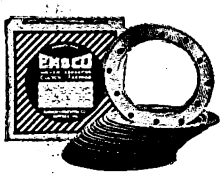
A Brake Lining for Every Type of Brake

EMSCO HYDRAULIC BRAKE LINING
EMSCO MOULDED BRAKE LINING
EMSCO WOVEN BRAKE LINING
EMSCO ROYAL (Heavy Duty Woven)

EMSCO HYDRAULIC BRAKE LINING (Above)
For quick stopping and heavy loads. Embodies a higher coefficient of friction, requires little foot pressure, yet effects a smooth, sure braking action.

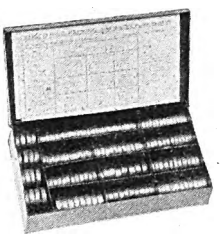
EMSCO MOULDED BRAKE LINING (Right)
Made from woven asbestos tape. Eliminates internal brake shoe troubles. Put up in rolls of 25 feet; and in sets, in cartons, for all sizes and types of internal expanding brakes.





EMSCO WOVEN CLUTCH FACINGS
Made from highest quality asbestos, woven into a firm tape. Packed in cartons of 25 facings, standard sizes, drilled and countersunk.

EMSCO SUREFLO RADIATOR HOSE
Will not harden, crack or become brittle. Three-ply heavy fabric prevents swelling and blow-outs.



EMSCO MOULDED PUMP PACKING RINGS
Designed for quick insertion in inaccessible places. Packed in metal containers of assorted rings. Two sizes—Handy Size and Super Service Size.

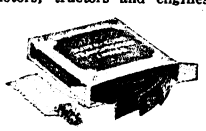
EMSCO ALLOY PISTONS
The best pistons on the market and up to Emsco quality in every way. Made in our own plant—fully equipped with the latest appliances for testing metals and all products.

EMSCO AUTOMOBILE RIVETS
We make all types and sizes for brake linings, instrument panels, hood lacing, running board strips, clutch facings, and other requirements.

PERFECT PISTON PINS

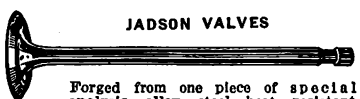
EMSCO PISTON PINS—Plain and Self-Locking
We make all types to meet the most exacting requirements for motor cars, motorcycles, motor trucks, airplane motors, tractors and engines.

EMSCO VALVE STEM PACKING
For automobile water pumps, compressors, grease guns, etc. Especially suited for use where there is possible contact with oils and chemicals.



EMSCO SUPER-CORD TRANSMISSION LINING
Woven solidly from fine cotton yarn and impregnated with a heat-resisting compound which keeps it pliable and prevents chattering.

JADSON VALVES



Forged from one piece of special analysis alloy steel—heat resistant and so tough it can be twisted into a knot without breaking. Will not warp, pit, or scale.

Write for complete list of Emsco Automotive Products, prices and full particulars.

EMSCO ASBESTOS COMPANY

Main Office & Factory: Downey, California

Warehouses:

New York, N. Y. — Dallas, Texas — Seattle, Wash.
Atlanta, Ga. — Portland, Ore. — San Francisco, Calif.
Kansas City, Mo.

When you REPLACE PISTONS *—make it a* DELUXE *job!*

WITH DELUXE PISTONS you can give your customers more for their money—and MAKE A BIGGER PROFIT for yourself.

DELUXE PISTONS are sold on PERFORMANCE—not on price!

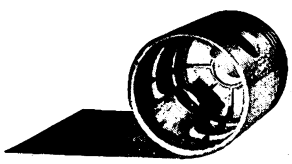
DELUXE PISTONS are used as standard equipment by over 35 manufacturers of buses, trucks, tractors, engines, etc. This gives you an opportunity to get in on the BIG PROFIT fleet business.

Performance Without Penalty!

DELUXE PISTONS offer all the power, pick-up and performance qualities of a light weight piston without the penalty of short life.

75,000 miles of service is common for DELUXE users.

DELUXE PISTONS *stay round*, preventing oil pumping; they assure a cool running engine; they increase gasoline mileage and reduce oil consumption.



DELUXE PISTONS are scientifically designed for every motor. The DELUXE merchandising plan assures greater profits for every shop.

Find out now the PROFIT POSSIBILITIES of DELUXE PISTONS—send for a copy of our free booklet "PISTON PROFITS."

DELUXE PRODUCTS CORPORATION
2001 LAKE STREET — LA PORTE, INDIANA

DELUXE
LIGHT WEIGHT CAST IRON
PISTONS

Digitized by Google

US TIRES

THE BIG SWING IS TO U.S. TIRES

UNITED STATES RUBBER COMPANY
WORLD'S LARGEST PRODUCER OF RUBBER

US BRAKE LINING

U. S. ROYAL

{LATEX BONDED} **LB** {LATEX BONDED}

BRAKE LINING

The use of natural Latex, the fluid of the rubber tree, in patented processes permits maximum asbestos content and minimum bonding material.

The result is a flexible moulded asbestos lining that offers extreme resistance to abrasion, heat, oil, and water.

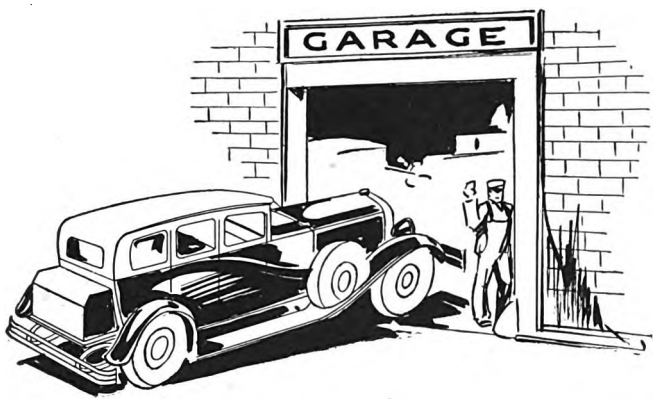
U. S. ROYAL LB is conveniently furnished in rolls so that a minimum number of sizes will serve your entire market.

Naturally the trend is to U. S. Royal LB. Get the facts about this radically new lining today.

(PLEASE ADDRESS THE FIBRE PRODUCTS DEPARTMENT OF THE UNITED STATES RUBBER COMPANY AT NEW YORK OR DETROIT)

UNITED STATES RUBBER COMPANY
FIBRE PRODUCTS DEPARTMENT

Digitized by Google



When they come in for overhauling . . .

don't forget that a new muffler will help give the old engine new life. It's easy to sell a Pratt Chuck replacement muffler backed by the guarantee:

A new muffler free in case of failure from any cause.

Corrugated nested cup construction and advanced design give Pratt Chuck Mufflers quietest exhaust, least back-pressure, longest life. A type for every car, bus and truck.

PRATT CHUCK COMPANY
Frankfort, N. Y.

Warehouse Stocks at
Chicago, Atlanta, Dallas, Los Angeles

In Canada—J. C. Adams Co., Factory Representatives,
11 Davenport Road, Toronto, Ont.

Order from your jobber

PRATT CHUCK MUFFLERS

4109

POWELL PRODUCTS

The user's satisfaction is our guide in everything we manufacture.

Twenty-five years of unabating satisfactory service has created a host of constant users of Powell products.

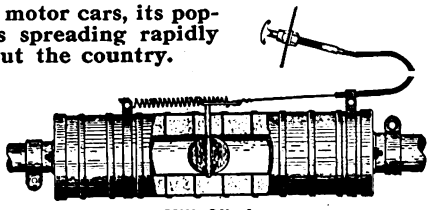
Originated by Powell in the early days of the motor car the Cup Type Muffler, a leader then, is the leader now. A standard for quality, its sales have mounted until it is the biggest selling replacement muffler on the market.

Cup Type Muffler

The new All Electric Welded Shell Type Muffler, unparalleled in constructional features, has sales advantages which are bringing new profitable business to Powell Dealers everywhere.

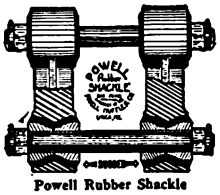
All Electric Welded Shell Type Muffler

The Hill Climber is a back pressure reducing, motor car ability increasing device which is built into the Powell Cup Type Muffler. It is one thing every motorist should have and cannot afford to be without. Built to fit all makes of motor cars, its popularity is spreading rapidly throughout the country.

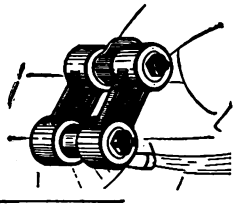


Hill Climber

The Rubber Spring Shackle overcomes the troubles of the old time metal to metal shackle. A replacement part in which every motorist is interested. The rubber bushing dissipates vibration, reduces road whipping and gives to the car a riding comfort otherwise not experienced. No oiling—No rattles—Long life.



Powell Rubber Shackle



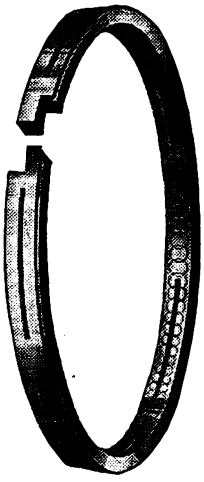
The Powell Pure Air Car Heater is built in two popular styles: the blower type operated by a small enclosed fan located under the cowl and the funnel type. In both of these systems fresh air is passed through a gas proof heating unit up into the car, giving summer comfort to winter motoring.

Powell Bent Tubes. Through our patented process we produce exhaust tubes, tail pipes, etc., which are full diameter at all points. Area of the tube is not restricted at the bends.

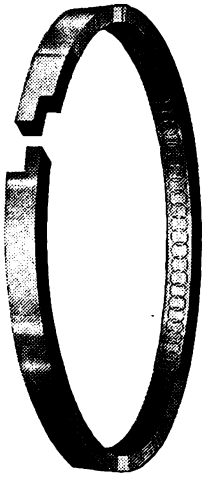
Send today for our latest sales helps consisting of descriptive literature, catalog, new attractive wall chart, filled with sales increasing information.

Powell Muffler Company
Utica, N. Y.

Digitized by Google



OIL RINGS



COMPRESSION RINGS

Ohio Hammered Rings

are hammered on the inside, and the inside of a piston ring does not ever receive any wear; therefore, the tension is permanent and *they last longer.*

Sold Through Parts Jobbers All Over the World.

Manufactured By

The Ohio Hammered Piston Ring Company

Cleveland, Ohio

To every man who buys Automotive Parts

You can buy from one good distributor cheaper, easier and quicker than you can by shopping around.

You inconvenience yourself when you pick up one part here, another there and still another somewhere else. You spend valuable time and money unnecessarily. You pay larger transportation charges.

but...

... When you buy from a McQuay-Norris distributor, you buy a brand. You buy parts that are *made for each other* to one high, uniform standard of accuracy, parts that belong to each other, and you buy these parts with the minimum of trouble, inconvenience, time and expense.

It will pay you to buy from your McQuay-Norris Distributor

McQUAY-NORRIS MANUFACTURING CO.

General Offices: St. Louis, U. S. A.

Export Offices: 30 Water St., New York, U. S. A.

Factories: St. Louis, Indianapolis, Connersville, Ind. (Two); Toronto, Can.

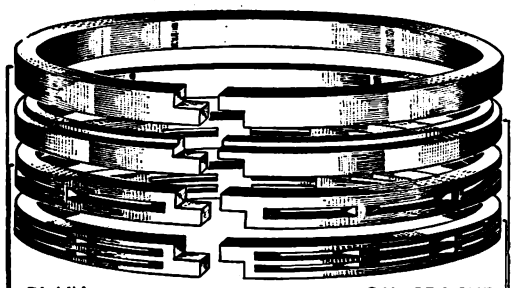
McQUAY-NORRIS

PISTON RINGS - PISTONS - PINS - VALVES - BEARINGS - BOLTS - BUSHINGS

Digitized by Google

MOR-POWER *piston rings*

MOR-POWER Rings are made *right* in the heart of the industry and to car builders' original specifications. Rings made for replacement are held to the same close limits and are as rigidly inspected. Standard equipment on cars of outstanding performance.



PLAIN SINGLE OIL STOP — OIL GROOVE DOUBLE OIL STOP

MOR-POWER Rings are cast individually from patterns made to special formula insuring equal distribution of pressure—cast from "superior" close grained gray iron, accurately ground and uniformly machined to a velvet turn finish assuring uniform tension, quick seating, resisting excessive heat and wear and their rough endurance adds longer life, greater speed and MOR-POWER to any motor.

MOR-POWER Rings are individually enclosed in clearly marked, wax paper envelopes and are packed twelve rings in three colored cartons. Bulk rings are wrapped in wax paper with an outer wrapping of heavy Manila paper properly marked.

Combination sets contain the necessary amount of plain compression and oil-stop rings for all popular makes of cars.

SOLD 'ROUND THE WORLD THROUGH THE JOBBING TRADE

The trade mark, MOR-POWER, is your assurance of the best there is in piston rings and piston ring design.

SPEED SUPERIOR ENDURANCE mor-POWER

Install MOR-POWER Rings in your next job and make sure of satisfied customers — always.

SUPERIOR PISTON RING CO., INC.

6423 EPWORTH BLVD. - - DETROIT, MICHIGAN

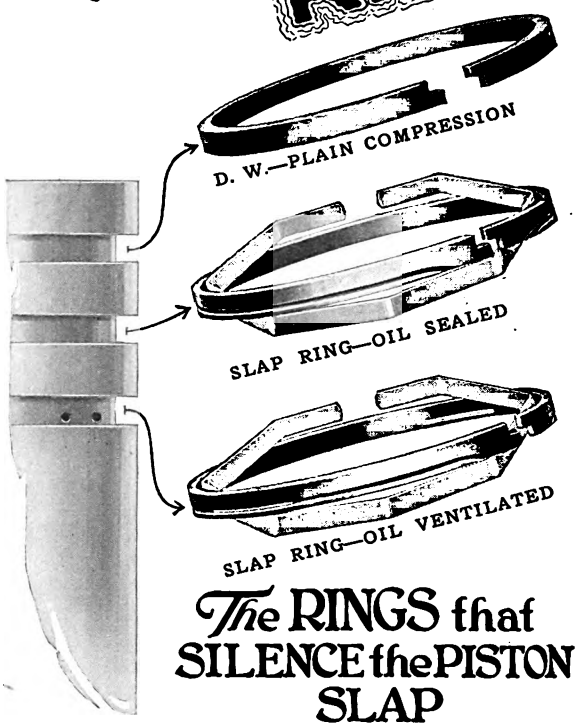
Winkenweder & Ladd, Inc.
1475 South Michigan Avenue
Chicago, Illinois

Walter H. Grebe Company
474 Glisan Street
Portland, Oregon

European Branch:
Bonded Stock in Antwerp
66 rue Hotel des Monnaies, Brussels, Belgium
In charge of Corneliussen & Stakgold

Canadian Warehouse
The Flaherty Mfg. Co., Hamilton, Ont.

SLAP RING



The RINGS that SILENCE the PISTON SLAP

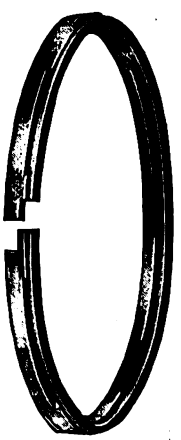
The oil sealed slap ring is used where pistons are not drilled. The twin oil control grooves carry oil, seal the pistons and reduce wall pressure friction.

The oil ventilated slap ring is used when pistons are drilled for oil ventilation.

HEBERT

Compression and Overflow RINGS

HEBERT Compression and Overflow rings are Heat-shaped, which means permanent and equal tension, true to circle.



HEBERT MANUFACTURING CO.

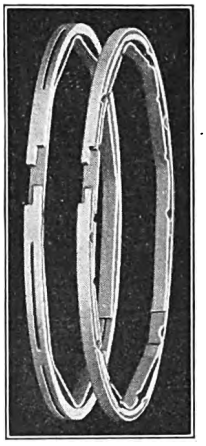
Established in 1912
FRANKLIN, N. H.

New York Office
1248 Bedford Ave.,
Brooklyn, N. Y.

California Office
943 East Fourth Street
Los Angeles, Cal.

Digitized by Google

If it's a Piston Ring WEL-EVER has it!



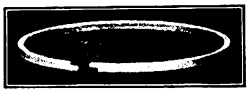
No matter what type of piston ring you want your WEL-EVER Jobber can supply you. The WEL-EVER Line is not only complete but every ring is of superior quality and priced to sell easily at a good profit.

FLEXO Combination

Two rings, a special Ventilated ring and an Oil Control ring, both with Swedish steel expanders. Tailored to fit each individual groove depth on the piston thereby permitting wall pressure to be regulated at will! Guaranteed to stop piston slap, compression loss and oil pumping. Stops the grief and comebacks and saves 30 to 90% of the expense connected with ordinary cylinder reconditioning. Cost even less than other rings claiming to do what FLEXO'S do. Gives satisfaction to car owners and more profit for you!

Oil Control

This ring is the original one piece, oil regulating piston ring and is guaranteed to stop oil pumping and reduce oil consumption, thus eliminating coking and burning of valves.



Compression

Has quick-seating finish, is step cut and individually cast. Made from close-grained virgin metal, machined to precision. The very best Compression ring on the market.

Single Vent

A popular slotted type ring which directs excess oil through holes in the ring groove back to the crankcase, retaining the proper amount for cylinder wall lubrication.

Dubl-Vent

This ring functions exactly as our Single-Vent ring except that double the volume of oil is returned. This ring is recommended in high speed motors.

Flexo Expanders

FLEXO EXPANDERS are made by our own patented method from finest Swedish steel, imported and heat proof. Guaranteed to give superior service and satisfaction. You can't buy better!

Special Sets

Consist of our standard Compression and Single Vent rings. Packaged in cartons so as to make complete ring replacements according to the job. These Special Sets are the economy way to buy these rings.

Don't accept rings of lesser quality than WEL-EVER. If your Jobber can't serve you, write for name of WEL-EVER Jobber near you.

The Wel-Ever Piston Ring Co.

Toledo, Ohio, U. S. A.

WEL-EVER

TRADE MARK REGISTERED

*Accuracy..Dependability Plus..*MORE PROFIT!

Elastic Compression Ring is a high grade concentric ring, cast of close grain grey iron, uniform in tension at all points of the circle. Absolutely round, flat and finished to exact dimensions. No power loss—rings are gas-tight.

Elastic Vented Rings embody the step-cut feature of Elastic Compression Rings plus slots or vents. For pistons which have one of the ring grooves drained with port holes.

Elastic Oil Wiper is the high-grade compression ring slightly chamfered on top and with continuous groove at the bottom. Gives oil control on pistons not drilled with port holes.

Use Double-Vented Rings in motors showing extremely high oil consumption. Maintain thorough lubrication, at the same time returning all surplus oil to the crankcase through ports in ring grooves.

Combined Packages

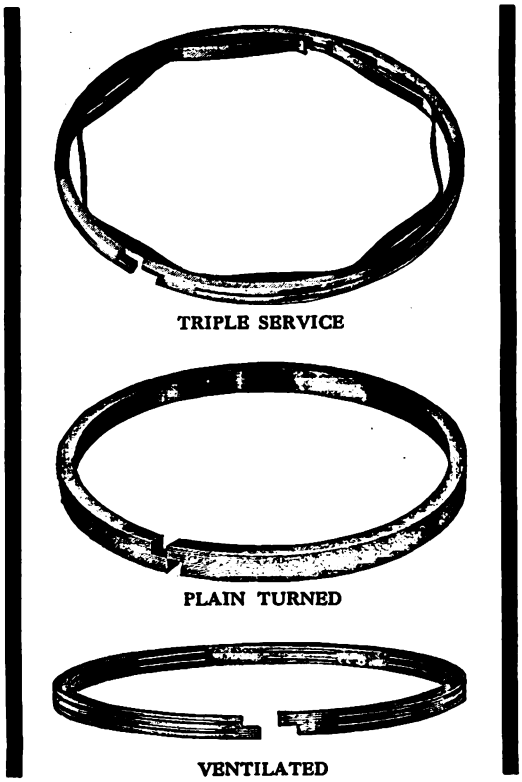
1. Two-way unit—One Elastic Vented ring for each cylinder and Elastic Compression Rings to complete set. 2. Three-way set—One Oil Wiper and one Vented for each cylinder and remainder of set Compression rings.

Ask Your Wholesaler or write direct for prices.

Continental Piston Ring Co.

Memphis, Tennessee

Digitized by Google



TRIPLE SERVICE

PLAIN TURNED

VENTILATED

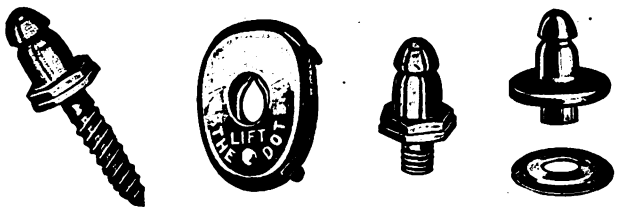
The sensational performance of the combination of Burd Plain Turned and Burd Triple Service Rings is making sales of this super-replacement combination equally sensational.

These rings bring three important results:

1. Increase compression and save oil and gasoline.
2. Stop oil pumping.
3. Relieve piston slap.

What we claim we can prove. Let us rush our new Ring Directory to you by return mail. It's free for the asking—and it's crammed full of valuable information. Send today!

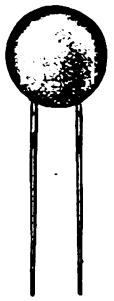
BURD PISTON RING CO.
Rockford, Illinois



The Complete Fastener Service

Satisfactory fastener results depend upon the perfection of design, construction, and finish of the fasteners you use. Genuine "Dot" fasteners are made with the care and precision necessary to insure the satisfactory results you should have. Make sure the letters "U.C.F. Corp." are stamped on your fastener parts—your guarantee of "Dot" quality fasteners.

The "Dot" Line of Fasteners



- LIFT THE DOT
- PUSH THE DOT
- DURABLE DOT
- BABY DURABLE
- VELTEX DOT
- ANZO DOT
- SEGMA DOT
- COMMON SENSE TURN-BUTTON
- BURCO TURN-BUTTON
- TRIMOUNT
- DOT PLUG BUTTONS
- DOT TEENUTS
- PIN FASTENERS

ASSORTMENT #1 LIFT *the* DOT Fasteners

Convenient assortment for the auto body trimmer. List price, $17.75.

Ask your Jobber for a catalog, listing the complete line of "Dot" Fasteners and Attaching Machines. Leading Jobbers of Automobile Top and Trimming materials located at strategic points throughout the country are equipped to supply promptly your need for fasteners and current literature.

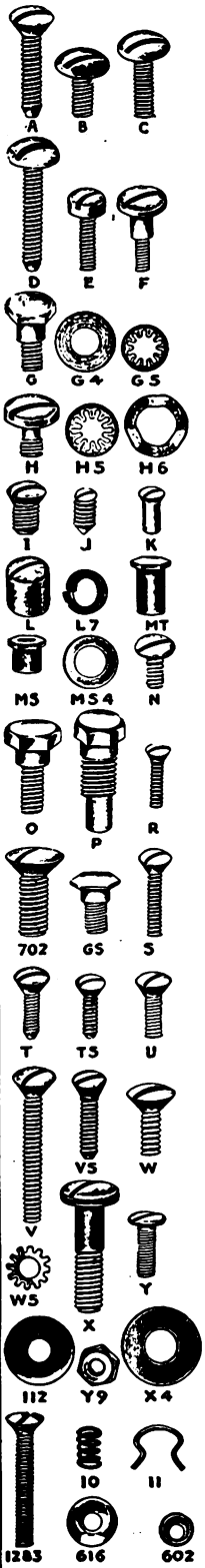
UNITED - CARR FASTENER CORP.
Cambridge Mass.

Digitized by Google

THE AUTO-VEHICLE PARTS COMPANY

AUVECO ❖ ❖ ❖ SOLD THROUGH ALL LEADING JOBBERS

AU-VE-CO SCREW ASSORTMENT



Copper Nickel Plated and Solid Brass Nickel Plated, Interior Body, Special Screws in 4 distinctive assortments.

No. 36 "The Master" Screw Assortment

"All-In-One" — an attractive steel cabinet divided into convenient compartments filled with the items listed below.

740 pieces
460 screws
180 washers
60 nuts
20 spacers
10 coil springs
10 spring wire clips

No. 27 Chevrolet Assortment

342 pieces
171 screws
101 washers
40 nuts
10 coil springs
10 spring wire clips
10 spacers

No. 18 Model "A" Ford Body Screw Assortment

172 pieces
117 screws
30 washers
25 nuts

No. 9 Fisher and Other Bodies Assortment

285 pieces
235 screws
40 washers
10 nuts

Individual items packed 100 to carton.

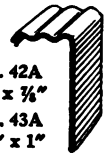
"AU-VE-CO" PRODUCTS

"Au-Ve-Co" Interior Body Screw Assortment No. 36, "All-In-One"
"Au-Ve-Co" Interior Body Screw Assortment No. 18 for Ford Model "A"
"Au-Ve-Co"] Interior Body Screw Assortment No. 27 for Chevrolet
"Au-Ve-Co" Interior Body Screw Assortment No. 9 for various cars
Buttons, Clinch
Buttons, Drive
Buttons, Tufting
Buckles, Web Strap
Buckles, Web Strap Hook
Clips, Channel
Clips, Cushion Spring
Clips, Radiator Cover
Clips, Windshield
Channel, Spring Tension Glass "Snugger"
Curtain Fasteners
Curtain Straps, Commercial Car
Cushion Spring Clips
Curtain Roll-up
Cushion Spring Stay Assembly
Curtain Straps, Truck Roll-up
Escutcheon Pins
Eyelets, Snap Fastener
Eyelets, Knob
Eyelets and Washers, Seat Cover
Eyelets and Washers, Tire Cover
Fasteners, Curtain
Fasteners, Pin, for Seat Covers
Footman Loops
Grommets
Hooks and Rings
Knobs
Metal encased "Snugger" Spring Tension Glass Channel
Moulding, "Auvecolite" Running Board
Moulding, Drip
Moulding, Ledge
Moulding, Aluminum "Foldown"
Nails, Concealed Head
Nails, Countersunk Body
Nails, "Hit'em" Finishing
Nails, Running Board Moulding
Nails, Saddle
Nails, Door Cover Panel, Steel
Nails, Solid Head, Lining
Nails, Wire Shank
Nut Locks
Patches, Wagon Curtain
Pin Fasteners for Seat Covers
Prop Nuts
Punches, Hand Tool
Radiator Cover Clips
Running Board Moulding "Auvecolite"
Running Board Moulding Nails
Running Board Moulding Rivets
Running Board Moulding Screws
Screws, Ford Body
Screws, Interior Body
Sleeve Nuts
Spacers
Stay-Assembly, Cushion Spring
Straps, Curtain Commercial Car
Straps, Curtain Truck
Straps, Ford Door Check
Tacks
Tips, "Coppertite"
Tips, Ford
Tips, "Her-Zim"
Tips, "Locktite"
Tips, "Hid'em" Welt
Tips, "Wire-on"
Tips, Web Strap
Top Prop Nuts
Trim Clips
Wagon Patches
Washers, Clinch Button
Washers, Countersunk Finishing
Washers, Screw, Flush type
Windshield Clips

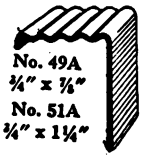
AUVECOLITE Running Board MOULDING

ALL SIZES AND PATTERNS

No. 36A ½" x ⅜"
No. 37A ½" x 1"



No. 42A ½" x ⅜"
No. 43A ½" x 1"



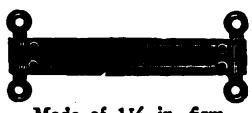
No. 49A ¼" x ⅜"
No. 51A ¾" x 1¼"

Drive Screws
No. 6 ¾"
No. 8 1"
Nickel plated

Rivets
No. 150
For metal running boards. Nickel on brass.

Nails
No. 100
For wood running boards. Nickel, rustproof heads.

Door Check Straps



Made of 1¼ in. firm harness leather. Pressed steel hardware.

FINISHING TIPS — A complete line in all styles.

No. 1 "Hid'em"
No. 12 "WireOn" "Coppertite"
No. 23 "Herzim"

Counter Sunk Body Nails

No. 95, Size No. 15, ½"
No. 96, Size No. 15, ¾"
No. 98, Size No. 15, 1"
No. 99, Size No. 14, ¾"
No. 101, Size No. 14, 1"
No. 102, Size No. 14, 1¼"
No. 104, Size No. 14, 1½"

For attaching body panels. Cement Coated. Barbed Shank. In one-pound papers.

Finishing Nails Concealed Head

For attaching Body and Drip Mouldings where a concealed head finish is necessary.

No. 91—Size No. 16, 1"
No. 92—Size No. 14, 1"
No. 93—Size No. 14, 1¼"
No. 94—Size No. 14, 1½"
No. 82—Size No. 12, 1"
No. 83—Size No. 12, 1¼"
No. 84—Size No. 12, 1½"
No. 85—Size No. 12, 1¾"

For Auto Body Mouldings. In one pound papers. Barbed shank, japanned.

AU-VE-CO Sanitary Tacks

"Hit'em Upholstery Nails
Reinforced heads, sharp tack points for all upholstering purposes. 50 in box.

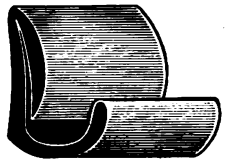
Pin Fasteners
Double or Single with Locking Device

"Perfectrim" Hid'em Welt

For seats, tops, door panels, 15-foot rolls in display cartons with 90 trimmer's tacks, 6 finishing tips and tip nails; or 50-yd. rolls.

"Foldown" ALUMINUM MOULDINGS
Extruded Aluminum

Pat. App. For



DRIP MOULDING
No. 403
7 feet long
¼-in. width
6 pieces to tube
No. 406
8½ ft. long
¼-in. width
6 pieces to tube

CROWN ROOF MOULDING

No. 506
8½ ft. long
⅝-in. width
12 pieces to tube
No. 536
8½ ft. long
¼-in. width
12 pieces to tube

Interior Body Trim Nails
Countersunk head and Flat Head. Japanned—Neutral Gray. Small and long tapered. Perfect for blind nail trimming. Size No. 18, ⅝" to 1". Size No. 16, ¾" to 1¼".

CROWN ROOF MOULDING CORNERS
Ready to Install

No. 1500 ⅝-in. Foldown Crown Moulding
No. 1530 ¾-in. Foldown Crown Moulding

AUVECO ❖ ❖ ❖ ORDER THROUGH YOUR JOBBER

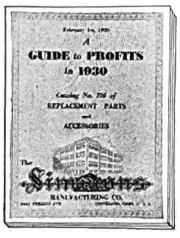
THE AUTO-VEHICLE PARTS CO., Manufacturers, 1032 Saratoga St., Newport, Ky.

Digitized by Google

Simmons

HEADQUARTERS
for FORD *and* CHEVROLET
Replacement Parts

Ammeters
Armatures
Axles
Bearings
Brakes
Bushings
Bolts—King & Tie Rod
Brake Drums
Breaker Arms
Cones
Connecting Rods
Cylinder Heads
Crank Shafts
Commutators
Coils—Ignition
Caps—Distributor
Carburetors
Cranks—Starting
Clamps—Hose
Condensers
Cables—Ignition
Cut-outs—Generator
Collars—Transmission
Differentials
Drive Shafts
Discs—Transmission
Dashes
Distributors
Engine Pans
Facings—Clutch
Feed Pipes
Fans
Fenders
Floats
Gaskets
Grease Cups
Gears—Transmission & Differential
Generators
Gauges—Gas & Oil
Gas Tank Caps
Hubs
Hub Caps
Hangers-Spring
Hoods
Housings—Starter
Hose
Hydraulic Jacks
Keys—Axle
Knuckles
Lamps
Lenses
Lugs—Rim
Manifolds
Magnetos
Mufflers
Motor Brushes
Nuts
Pinions
Plugs
Pet Cocks
Pistons
Pins
Push Rods
Packing
Quadrants
Radius Rods
Rings—Piston
Ratchets
Radiators
Running Boards
Resistance Units
Rocker Arm Covers
Reflectors
Radiator Caps
Rotors
Spindle Bodies
Shims
Shafts—Axle
Steering Gears
Springs—Valve
Shackle Bolts
Switches
Starter Springs
Spring Shackles
Tapered Bearings
Timers
Transmissions
Tie Rods
Universal Joints
Valves
Vibrators
Vaporizers
Valve Spring Lifters
Washers
Wrenches
Wire Harness
Wheel Pullers
Wheel Bearings



Write for your copy of "The Simmons Guide To Profits in 1930."

FOR ALL CARS: Mufflers, Universal Joints, Generator Cut-outs, Wheel Pullers, Hydraulic Jacks, King Bolts, Tie Rod Bolts, Shackle Bolts and Starter Springs.

The Simmons Manufacturing Co.
CLEVELAND · OHIO
WAREHOUSES
CHICAGO 1809 So. Indiana Ave.
PHILADELPHIA 710 No. 17th St.
DALLAS 2807 Commerce St.

Simmons

BULL DOG
Replacement
PARTS

FOR

Ford, Chevrolet and Other Cars

Starter Springs for Bendix Drives

PISTON PINS
BRONZE BUSHINGS
KING and SHACKLE BOLTS
UNIVERSAL JOINTS
SPRING HANGERS
BRAKE LINING RIVETS
TIMERS
GENERATOR CUT OUTS
STARTER SWITCHES
ELECTRIC CONDENSERS

V

JAMBOR
TOOL & STAMPING CO.
MILWAUKEE, WIS.

Digitized by Google

WORLD'S LARGEST Replacement PARTS HOUSE

New and Used Auto Parts

Everything for the auto at rock-bottom prices, made possible by quantity buying and big volume selling.

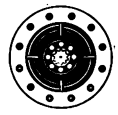
Write us for prices on Gears, Bearings, Axles, Transmissions, Piston Rings, Wheels, Rims, Tires, Tubes, Bodies, and a complete line of accessories—new, exceptwhere specified.

We Are Cash Buyers of

SURPLUS AUTO AND TRUCK PARTS AND AUTO SUPPLIES

WARSHAWSKY & Co.
1915-35 S. State St. 7118 Stony Island Ave.
CHICAGO, ILL.

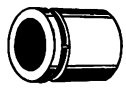
ES-M-CO BRAND PRODUCTS CHEVROLET and FORD SPECIALTIES


Clutch Discs Chevrolet and Other Cars

Graphite Bearings All Cars Assortments

Clutch Sleeves for Chevrolet

Clutch Collars for Chevrolet


Propeller Shaft Bushings, Chevrolet

Universal Joint Housings, Chevrolet

Universal Joint Housing Supports for Chevrolet and Pontiac

Starting Switches Chevrolet Ford Model A & T Chrysler, Oldsmobile, Essex, Hudson, etc.

Brush-Holder Ford Model T

OUR AIM:

To manufacture the most complete Chevrolet and Ford replacement parts line.

LOCATION:

Plant situated on New York Harbor, Bush Terminal Building No. 7. Accessible to all Railroads, Steamship lines — Shipping to the entire Globe. Prompt Service is our motto.

EQUIPMENT:

We have all modern high speed production machinery of the latest type, supervised by skilled mechanics. Every item is manufactured in our plant.

ITEMS:

Only salable parts are manufactured—Fast Moving—Lucrative both to jobbers and their customers.

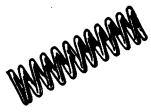
ES-M-CO BRAND PRODUCTS NOT A NEW LINE!

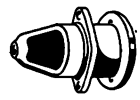
WE SELL JOBBERS EXCLUSIVELY

WRITE FOR OUR LATEST CATALOGUE AND PRICE LIST.

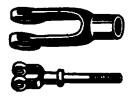
BE AN ES-M-CO JOBBER

FORD AND CHEVROLET ITEMS

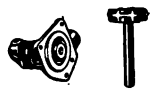

Valve Springs Fast Moving Numbers Only


Starting Motor Housings Chevrolet, Pontiac, Chrysler, Auburn, Marmon and Others

Replacement Starter Drive Bolts & Washers Also Assortments


Plain and Adjustable Yoke Ends and Clevises Also Clevis Pins

Carburetor Parts for Chevrolet Floats, Screens, Nuts, etc.


Water Pumps and Rotors for Chevrolet

Cylinder Water Outlet Connection for Ford Model A

Crankshaft Clutch Pilot Bushing for Chevrolet and other Chevrolet Bushings, Water Pump, Housings, etc.

ES-M-CO AUTO PRODUCTS CORP.
MANUFACTURERS
OFFICES and PLANT
31 THIRTY-FOURTH ST.
BROOKLYN, NEW YORK
U.S.A.

Digitized by Google

L-X

BRAKE BAND AND CLUTCH FACING RIVETS

Better rivets—lower cost — immediate shipments in desired lots. L-X rivets are designed to meet every requirement: approved and designated by automotive engineers, brake lining manufacturers; made by an organization of rivet experts whose concentrated experience, tremendous output and intensified methods enable us to produce rivets of superior design and quality at a price equal, and on some sizes cheaper than the lowest competition.

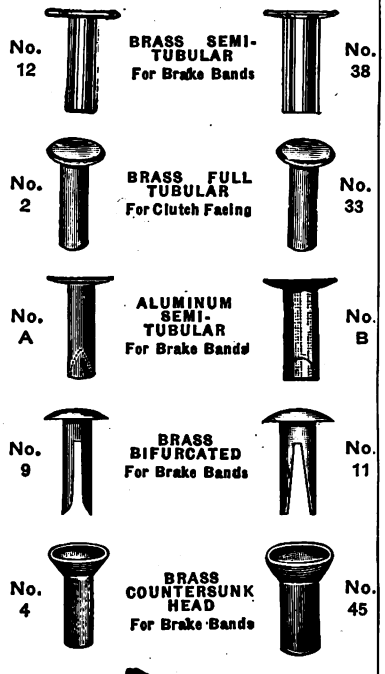
You can greatly increase your sales and profit by carrying this foremost and universally recognized line.

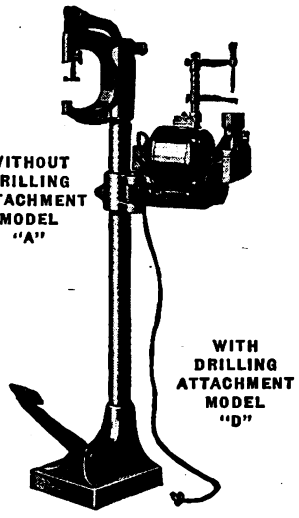
Prices and details on request.

See Editorial Pages 280 and 281 for Rivet Numbers.

L-X Riveting Machines and Equipment

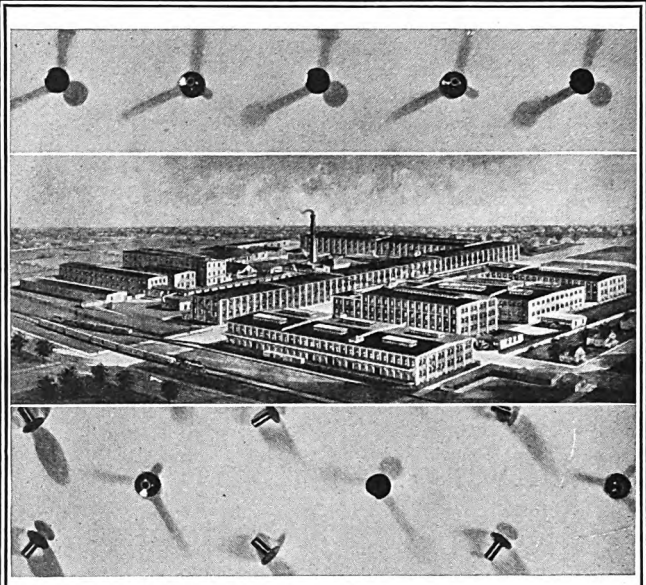
L-X PRODUCTS





MANUFACTURER'S BELT HOOK COMPANY

1315-21 W. CONGRESS ST.
CHICAGO, ILL.



The Choice of the Leaders in the Automotive World

The Rivets of the Tubular Rivet & Stud Company have been used for years by practically every nationally-known manufacturer in the automotive industry. They have been proved best for new-car construction: they are best for repair work, too.

T. R. & S. Rivets offer Service Stations, Garages, and Repair Shops the same uniformly dependable product that the leading manufacturers use in their cars. If you use these same rivets you can speak about them with pride and think about them with assurance. You know your work will be properly done, your customers satisfied.

When ordering Rivets *always* insist on those made by the Tubular Rivet & Stud Company.

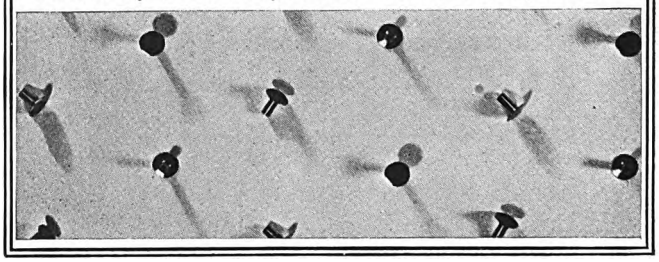
R&S Co

This company operates the largest factory in the world devoted to the manufacture of Tubular and Clinch rivets and gives constant and particular attention to quality, both with regard to the metal from which the rivets are made and to every detail of manufacture.

TUBULAR RIVET & STUD CO.

Established 1872

Factories, Wollaston, Mass. Main Office, Boston



Digitized by Google

SUPERIOR RIVETS

(BRASS AND SUPERALUMIN)

FOR

BRAKE LINING

AND

CLUTCH FACING

LOOK FOR THIS TRADE (S) MARK ON EVERY RIVET

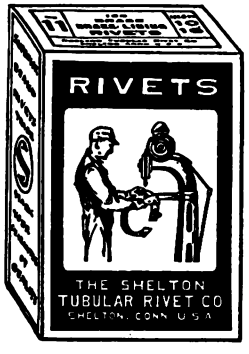
IT IS YOUR GUARANTY OF QUALITY

SUPERIOR RIVETS OFFER "SUPERIOR" QUALITY AND "SUPERIOR" ATTRACTIVENESS AT LOWEST COST.

OUR TRADE MARK ON EACH AND EVERY RIVET IS YOUR POSITIVE GUARANTEE OF QUALITY.

PROMPT SHIPMENT ASSURED FROM LARGE STOCK OF ALL SIZES.

SUPERIOR RIVET NUMBERS CONFORM TO CHILTON MULTI-GUIDE NUMBERS (See RIVET TABLE, PAGES 306 & 307).



PACKED 100 RIVETS TO DISTINCTIVE PACKAGE BEAUTIFULLY PRINTED IN BLUE AND RED.

ONE DOZEN BOXES TO APPROPRIATELY ATTRACTIVE CARTON.

ALSO IN BULK 1000 RIVETS TO CARTON.

WRITE FOR CATALOG AND PRICES

THE SHELTON TUBULAR RIVET CO.

SHELTON, CONN., U. S. A.

Chicago Rivets

for Every Automotive Need in Brass-Copper-Steel and Aluminum

Chicago Brake Relining Machines

Efficient Money Making Equipment for the Brake Service Stations

Chicago Drum Truing Machines

Chicago Brake Lining Grinders

Necessary Equipment in the Successful Service of Brakes

CHICAGO RIVET & MACHINE CO.

1830 So. 54TH AVE. Cicero P.O. Chicago

Refer to Rivet Specification

Pages 280-281

Digitized by Google

A Stock of 20 Million Cap Screws Ready for Immediate Delivery . . .

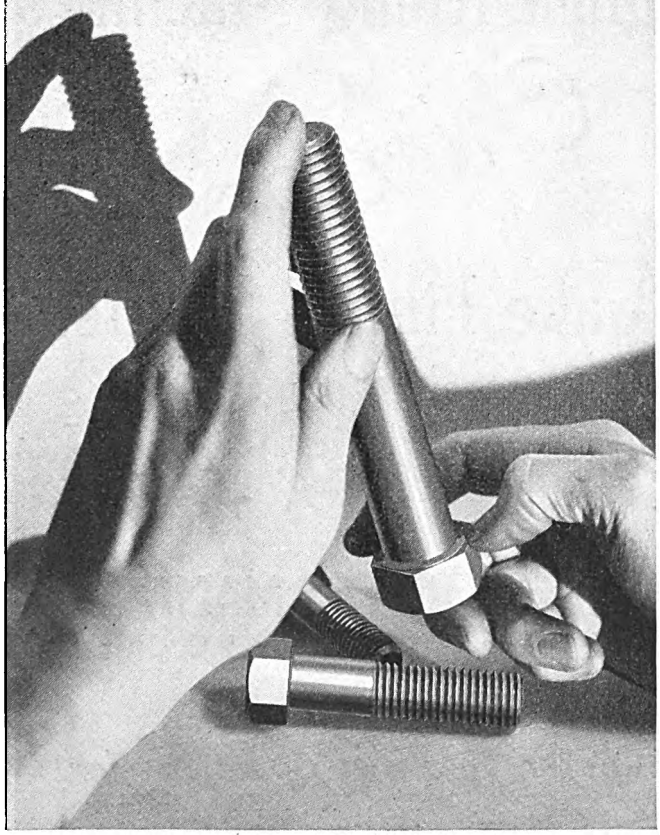
CLEVELAND Cap Screws, in S. A. E. and U. S. S. threads, are stocked in a full list of sizes at our six warehouses and the factory for immediate shipment. Packed in strong cartons and in kegs. Threads are accurate, clean-cut and sharp; heads can't shear or break.

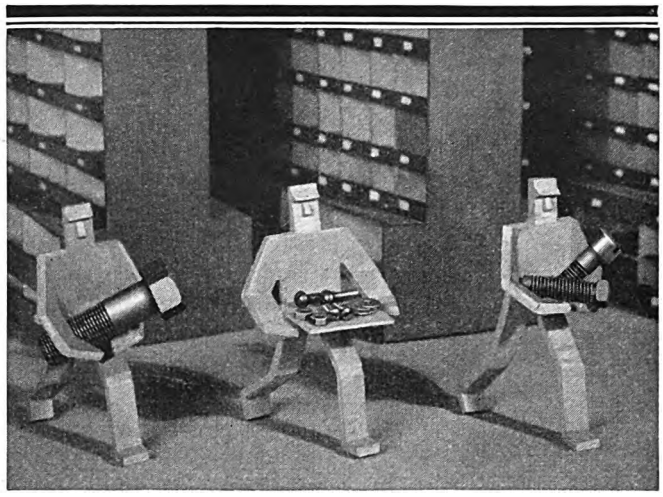
We can supply special Ford Bolts, Spring Shackle Bolts, Connecting Rod Bolts, Stud Bolts, Coupling Bolts, Semi-Finished Nuts, S. A. E. and U. S. S. Hexagon Head Cap Screws and Set Screws. Catalog C and Price List on request.

The CLEVELAND CAP SCREW Co.
3004 East 79th Street Cleveland, Ohio

WAREHOUSE STOCKS AT

CHICAGO . . . . 726 W. Washington Blvd.
DETROIT . . . . . 520 W. Congress Street
PHILADELPHIA . . . . 12th and Olive Sts.
SAN FRANCISCO . . 548 Howard Street
NEW YORK . . . . . 47 Murray Street
LOS ANGELES . . . . . 224 E. 11th Street

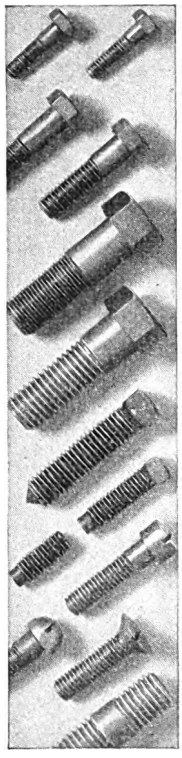




Any Sizes . . . Any Quantities
. . . and quick delivery from stock

THINK OF IT! Over 6000 sizes and styles . . . almost unlimited quantities . . . always subject to immediate shipment. Send us your inquiries.

The **UNITED** *Line of Products:*



SCREWS
Machine Cap
Binding Set
Knurled Special

NUTS
Machine Screw Wing
Castellated Knurled
Semi-finished Special

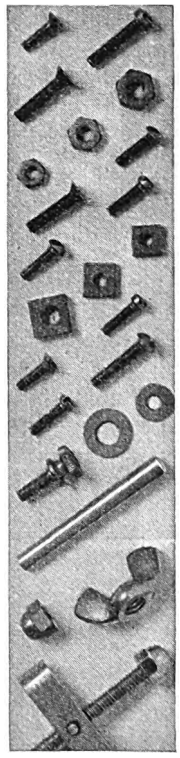
BOLTS
Special Toggle
Expansion

WASHERS
Standard Special
Hardened and Ground

MISCELLANEOUS
Taper Pins Studs
Threaded Wire Shapes
Light Metal Stampings

◀■▶

All **UNITED** *Products are available in steel, brass or other metals.*



UNITED
SCREW AND BOLT CORPORATION

Complete stocks conveniently located in
CHICAGO CLEVELAND NEW YORK

Digitized by Google

BOLTS EMPIRE NUTS-RIVETS

TRADE-MARK

EMPIRE—THE BOLTS AND NUTS OF TOMORROW

EMPIRE Lag Screws

EMPIRE Carriage Bolts

MODERN methods, modern ideas, modern equipment are keeping Empire Bolts, Nuts and Rivets always a little ahead of industry's needs. It was always so, ever since 1845 when Russell, Burdsall & Ward started, and it will always remain so; for when industry has caught up with Russell, Burdsall & Ward, they will again have improved. They are "perpetual pioneers."

Three giant factories, strategically located, stand ready to ship at a moment's notice, from huge stocks. Everywhere automobile plants, machine shops, locomotive works, shipyards and manufacturers, large and small, depend entirely on Russell, Burdsall & Ward for their requirements—and they are never disappointed.

It is such prompt and reliable service, together with quality that never fails, that has made the Empire brand known wherever nuts and bolts are used.

All Empire Cold-Headed Bolts from ¼" x 1¼" to ⅞" x 6"—*except* Tire, Plow and Stove Bolts—are heat-treated by a special process that gives every one of them a uniformly high tensile strength. Their threads are *cold-rolled* by Empire's *New Process* which makes each thread as accurate as those on a hardened and ground screw gauge. Empire *New Process* Bolts have the same diameter for their entire length—the shank is *not undersized*—and the threads are many times stronger than those made by any other means because the metal has been worked into shape.

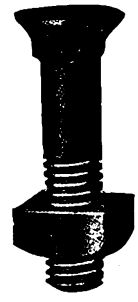
Empire Cold-Punched Nuts are also made by a special process which gives them an appearance and a strength equaling, if not exceeding, bar nuts.

EMPIRE Tire Bolts

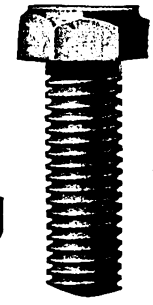
EMPIRE Machine Bolts

EMPIRE Sleigh Shoe Bolts

EMPIRE Automobile Wheel Bolts



EMPIRE Plow Bolts



EMPIRE Tap Bolts

The Empire Line

- Carriage Bolts
- Fin Head Bolts
- Eagle Turned Head Carriage Bolts
- Step Bolts
- Automobile Wheel or Hub Bolts
- Tire Bolts
- Philadelphia Eagle Tire Bolts
- Cutter and Sleigh Shoe Bolts
- Machine Bolts
- Blank Bolts
- Bolt Ends
- Lag Bolts
- Hanger Bolts
- Set Screws and Tap Bolts
- Plow Bolts
- Cultivator and Guard Bolts
- Stove Bolts
- Stove, Seat, Handle and Chair Rods
- Sink Bolts
- Elevator Bolts
- Parkerized (Rust Proofed) Bolts
- Hot Dip and Electro Galvanized Bolts
- Cadmium-Plated Bolts
- Brass Bolts
- Everdure Bolts
- Nickel-Capped Bolts
- Wash-Tinned Bolts
- Copper-Plated Bolts
- Special Bolts
- Rim Bolts
- Loom Bolts Wheel Bolts
- Finished and Case-Hardened Nuts
- Semi-Finished Nuts
- Crank and Knuckle Pin Nuts
- Square Nuts
- Hexagon Nuts
- Check or Jam Nuts
- Castle Nuts
- Slotted Nuts
- Cold Punched Nuts
- Machine Screw Nuts
- Hot Pressed Nuts
- Bar Nuts
- Rivets
- Washers

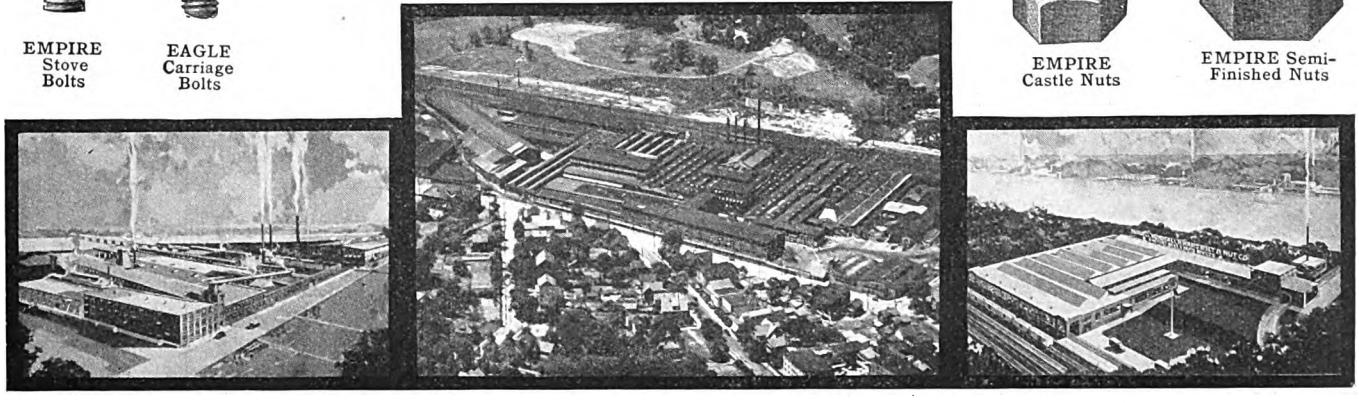
EMPIRE Finished and Case-Hardened Nuts

EMPIRE Stove Bolts

EAGLE Carriage Bolts

EMPIRE Castle Nuts

EMPIRE Semi-Finished Nuts



ROCK FALLS PLANT PORT CHESTER PLANT CORAOPOLIS PLANT

RUSSELL, BURDSALL & WARD BOLT AND NUT CO.

ROCK FALLS, ILL. PORT CHESTER, N. Y. CORAOPOLIS, PA.

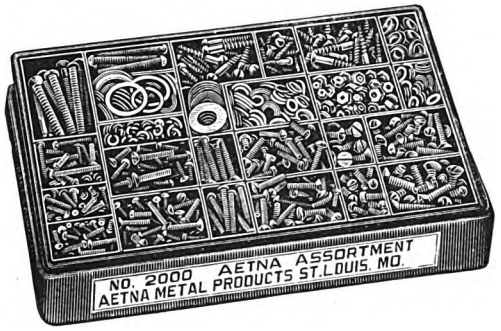
PHILADELPHIA - CHICAGO - DETROIT - SAN FRANCISCO - LOS ANGELES - SEATTLE - PORTLAND

Digitized by Google

AETNA
OF ST. LOUIS

Screws - Nuts - Washers - Bushings - Spacers

An Aetna Assortment on the bench with plenty of nuts and screws where you can see and select the right size, saves no end of trouble and helps you turn out more work.



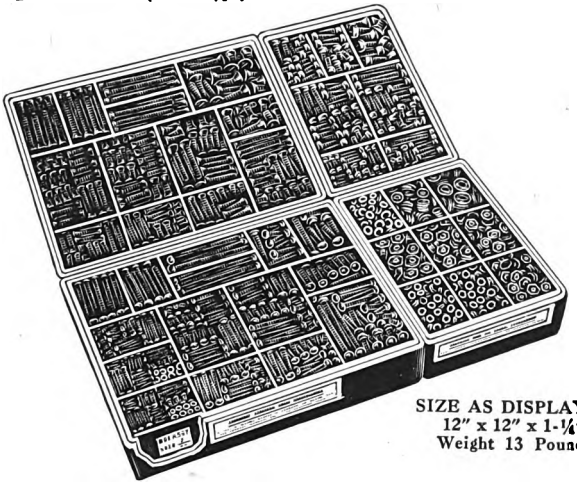
AETNA Assortment No. 2000...$10.00

SIZE 14" x 9" x 2"
WEIGHT 10 POUNDS

2000 Pieces — 300 Varieties

5 TO 30 PIECES EACH SIZE

Machine Screws and Hex. Nuts
Round — Flat — Oval — Fill Heads.
Lengths: 1/8 to 2½ inches.
Sizes: 2/56-3/48-4/36-6/32-8/32-10/32-10/24-12/24-¼/20.
Nuts and Brass Washers (All Sizes).
Lock Washers (6-8-10-¼").
Wood Screws—Nickel Plated.
Oval, Round and Flat Heads. (½" to 1½" long. Size: 2-4-6-8-10-12).
Countersunk Washers (all sizes).
Fibre Washers, Fibre Bushings, Fibre Spacers — All Sizes 1/16" to 1" Holes



SIZE AS DISPLAYED
12" x 12" x 1-¼"
Weight 13 Pounds

AETNA Assortment No. 3000...$12.50

A Complete Stock of Machine Screws

3000 Pieces — 250 Varieties

5 TO 75 PIECES EACH SIZE

SIZES: 2/56-3/48-4/36-6/32-8/32-10/32-10/24-12/24-½/20
LENGTHS: 1/8 to 2 inches.

1000—Round Head Machine Screws.
750—Flat and Oval Head Machine Screws.
300—Fillister Head Machine Screws.
1000—Hex. M. S. Nuts and Brass Washers.

AETNA No. 2000 and No. 3000 are the most complete for general repairs. Your Jobber can supply the refills.

AETNA METAL PRODUCTS CO.
1824 WASHINGTON AVE.
ST. LOUIS, MISSOURI

Your Source of Supply for
Everyday Replacement Necessities

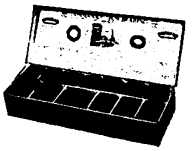
Let the Dorman Standard of Service keep you supplied with these automotive parts. Keep your repair service dependable with dependable parts. Ask for catalog on complete line of DORMAN AUTOMOTIVE NECESSITIES.

Valve Stem Keys Consists of assorted numbers, cadmium plated.
No. 111 assortment—111 keys
No. 216 assortment—216 keys
No. 1350 assortment—1350 keys
No. 2825 assortment—2825 keys

Contains a complete line of Clevis Pins for all cars, trucks and buses. Needed on every brake job.
No. 4 assortment—56 pins
No. 200 assortment—200 pins
No. 825 assortment—825 pins

Brake Screws should be replaced to get maximum service from brake lining. Most complete line. Cadmium plated.
No. 6 assortment—22 brake screws
No. 120 assortment—120 brake screws
No. 672 assortment—672 brake screws

Star Washers for Axle Shafts, Drive Shafts, Pinion Shafts and Housings. Complete line for all cars, trucks and buses.
No. 1 assortment—50 washers
No. 600 assortment—600 washers



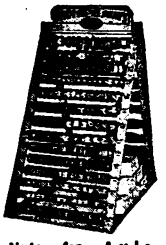
Dorman Clutch Throw-out Bearings. Never need oil. Self Lubricating. Require no attention. Complete line for all cars.

The COMPLETE LINE

Put up in various sized assortments.

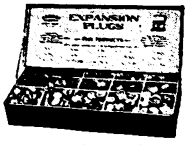
- Anchor Brake Screws
- Axle Shaft Keys
- Axle Shaft Nuts
- Brake Rod Yokes
- Brake Screws
- Clevis Pins
- Clutch Bearings
- Core Hole Plugs
- Drive Shaft Adjusting Nuts
- Drive Shaft Keys
- Expansion Plugs
- Felt Retainers
- Graphite Bearings
- Nuts
- Ring Gear Bolts
- Ring Gear Bolt Locks
- Rivets
- Soft Plugs
- Spacing Washers
- Spring Center Bolts
- Star Washers
- Universal Washers
- Woodruff Keys
- Yokes
- Hub Bolts
- Brake Springs
- Valve Stem Keys
- Piston Pin Lock Rings
- King Bolt Thrust Washers
- Inner Rings
- King Bolt Lock Pins
- Valve Tappet Silencers
- Springs, Compression and Extension

DORMAN STAR WASHER CO.
AUTOMOTIVE SPECIALTIES
CINCINNATI, OHIO
U·S·A·

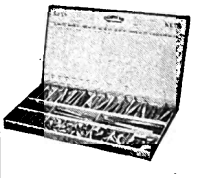


Nuts for Axle shaft, Drive Shaft and Pinion Shaft. Lock nuts and adjusting nuts. Save time. Increase profit.
No. 112 assortment—112 nuts
No. 588 assortment—588 nuts

Complete line of Brake Springs for all cars, trucks and buses. Mechanical and hydraulic. Japanned.



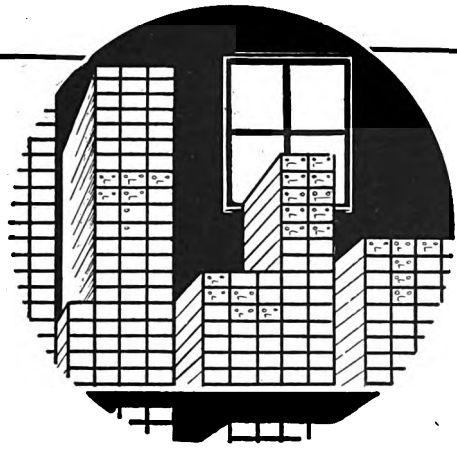
Expansion Plugs. Fit all cars, trucks and buses. Made both in standard type and cup type.
No. 5 assortment—40 plugs
No. 1000 assortment—1000 plugs



Keys, Straight and Woodruff keys. All sizes for any shaft.
No. 2 Woodruff assortment—68 keys
No. 36 Straight assortment—36 keys
No. 9 Combination assortment—60 keys
No. 400 Combination assortment—400 keys
No. 1298 Combination assortment—1298 keys

DORMAN STAR WASHER CO.
CINCINNATI, OHIO

Digitized by Google



Complete Stocks of C & B Connecting Rods in 7 Large Plants Throughout the Country

Seven Clawson & Bals plants conveniently located throughout the country—ready to give immediate service on connecting rods!

Each plant carrying complete stocks—and these stocks so close at hand they might be on your own shelves.

That's why we can promise you "instant service" and live up to our promise.

Clawson & Bals, Inc., is the only organization which boxes and properly labels connecting rods. All our rods, with the exception of Ford and Chevrolet, are so boxed and labeled. Another reason why you'll like Clawson & Bals service!

In rebabbitting connecting rods, we use nothing but virgin metal. All connecting rods are factory duplicated with oil holes and oil grooves in identically the same place.

Insist on Clawson & Bals Connecting Rod Service.

CLAWSON & BALS, INC.

4701-03-07-09 W. Lake St., Chicago, Ill.
1221 Beech St., Detroit, Mich.
1420 Seventh St., So. Minneapolis, Minn.
23rd Ave. and 33rd St., Moline, Ill.
309 W. 66th St., New York City, N. Y.
410 Peachtree St., N. E., Atlanta, Ga.
3015 Main St., Dallas, Texas

Complete line handled by leading replacement Parts Wholesalers

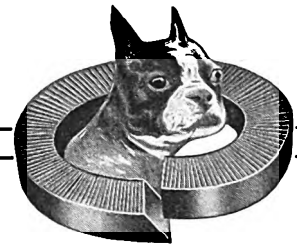
NEVER SLIP

REGISTERED U. S. PAT. OFFICE

Non-Entangling

LOCK WASHERS

"Ahead of 'Em All"



Patented May 6th, 1930

60% Greater Gripping Power

Will Not Tangle

Elimination of tangling, speeds production and prevents waste.

Greater Gripping Power

Its serrated surface grips the nut, while the lock washer lays flat under compression.

Under One Roof

we produce both lock washer and wire from which washer is made.

This assures correct analysis of steel, prompt delivery and quick service.

NATIONAL UMBRELLA FRAME CO.

(Lock Washer Division)

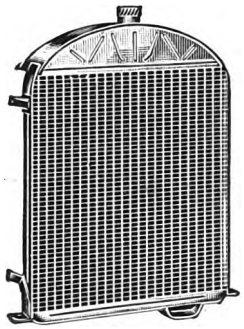
Penn Street and Belfield Avenue

PHILADELPHIA

Digitized by Google

PEERLESS REPLACEMENT PARTS

for Fords and Chevrolets



Tubular—Model "A"

Whirlwind—Model "A"

Two Types of Radiators for Fords and Chevrolets

From the old reliable source of supply! Corcoran's fourteen years of radiator building experience is behind these new radiators for late model cars. They are of the same high standards of workmanship for which Peerless Products have always been known. Why use "lick and promise" methods on damaged radiators? A new one is easier to install, your profit is greater, and your customer is better satisfied. Your jobber will be glad to furnish details concerning Peerless Products—or send for complete information.

FENDERS

How do you "dress up" a car—repair or replace? Greater profits are realized through replacements and customers go away happy and satisfied. The complete line of Peerless Fenders for Fords and Chevrolets makes your job of replacing easy. Most crashes require new fenders—don't try to straighten them out—replace with Peerless—easy, exact fit, quick, and profitable.

The Peerless Line

FOR FORDS

Radiators
Model "A" & "T"
Fenders
Model "A", "AA" & "T"
Passenger & Commercial
Runningboard Tool Kits
Runningboard Tool Boxes
Runningboard and Dust Shield
Comb. Model "T", "A" & "AA"

FOR CHEVROLETS

Radiators
1925-28 Inc.
Fenders
1925-28 Inc.
Passenger Cars.

Write for details—Dept. 29

The CORCORAN MANUFACTURING CO.
CINCINNATI, OHIO

And Now!

HEXCEL

Remember—These Cores are made in the world's largest replacement Radiator Plant.

□❖□

Guaranteed to be equal in efficiency to standard equipment.

□❖□

Not damaged by freezing, guaranteed 18 months.

TELESCOPIC ALL COPPER
(Flat Tube Tubular)

Radiator Cores
FOR
Replacement
ON
TRUCKS TRACTORS BUSSES

Industrial Equipment

In Addition to the Nationally Known

HEXCEL REPLACEMENT RADIATORS
FOR
FORDS
AND
CHEVROLETS

Manufactured by
HEXCEL RADIATOR CO.
MILWAUKEE, WIS.

Digitized by Google

BENDIX DRIVE SERVICE DATA
use only the genuine parts

The type of Bendix drive is designated by a number 13, 11, or 10 denoting the size of armature shaft, and by prefix "R" denoting Right Hand Screw Threads or "L" denoting Left Hand Screw Threads. The numbers 13, 11 and 10 also signify the standard number of teeth in pinion gear on these types, but if a special pinion is used, it is denoted by an addition, such as L-11-12 which means an L-11 drive with 12 tooth 8-10 pitch pinion.

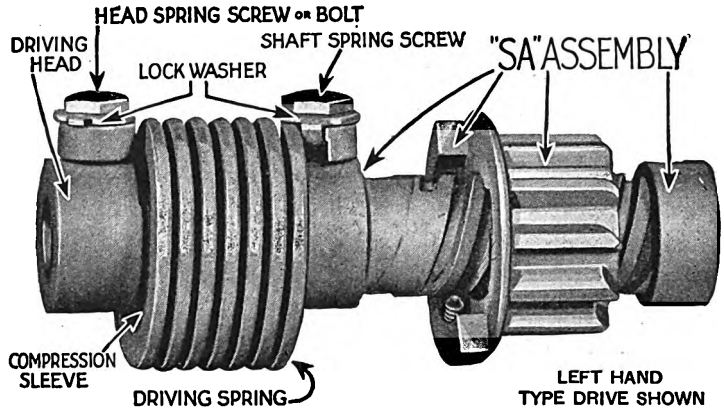
The R-13 or L-13 is mounted on an armature shaft, .802 (nearly 13/16 inch) in diameter.

The R-11 or L-11 is mounted on a shaft 5/8 inch in diameter.

The R-10 or L-10 is mounted on a shaft 1/2 inch in diameter.

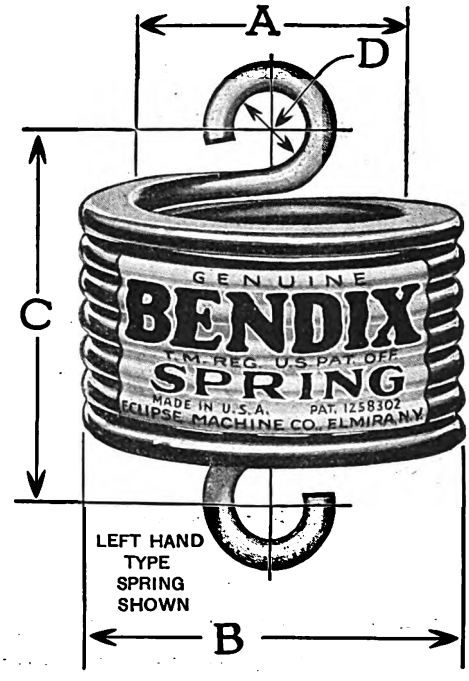
An "X" added to the designation of a drive, such as "R-13X," means that a spring heavier than a regular is used.

The SA pinion and screw shaft assembly consists of shaft, gear and counterweight, stop nut, sleeve, and anti-drift pin and spring. It is strongly recommended that these parts *should not be purchased separately*—rebuilding of defective or worn sub-assemblies can be made quickly and easily at our factory at reasonable cost.



A Spring of Superior Quality—Look for the Red and Yellow Label

Bendix Part No.	Inside Diameter	Outside Diameter	Length	Diameter of Screws	Number of Coils	Interchangeable Multi-guide Nos.
	A	B	C	D	E	F
R-10-6	15/16"	1 15/16"	1 3/4"	5/16"	7	NE-1R
L-10-6	15/16"	1 15/16"	1 3/4"	5/16"	7	NE-4L
LA-10-6	13/16"	1 13/16"	1 3/4"	5/16"	7	NE-6L
R-11-6x	15/16"	2 1/16"	1 3/4"	5/16"	7	NE-2R
L-11-6x	15/16"	2 1/16"	1 3/4"	5/16"	7	NE-5L
RB11xx-6	15/16"	2 1/8"	2 1/4"	5/16"	8	
LB11xx-6	15/16"	2 1/8"	2 1/4"	5/16"	8	
R-13-6	1 3/8"	1 15/16"	2 1/8"	3/8"	8	
L-13-6	1 3/8"	1 15/16"	2 1/8"	3/8"	8	
R-13-6x	1 3/8"	2 3/32"	2 1/8"	3/8"	8	NE-3R
L-13-6x	1 3/8"	2 3/32"	2 1/8"	3/8"	8	NE-7L
RC13xxx-6	1 3/8"	2 3/8"	2 1/8"	3/8"	7	
LC13xxx-6	1 3/8"	2 3/8"	2 1/8"	3/8"	7	



An "X" added to the designation of a spring, such as L-11-6X, means that a spring heavier than a regular is used—always use the same type if a replacement is made—a regular spring will not give service on an installation designed for the "X" spring. A slight permanent set in the spring does not interfere with its proper functioning. The regular and "X" type springs, even when used on Bendix drives otherwise identical, are not interchangeable unless the corresponding spring fastening screws are also used. Always use new lock washers when reassembling and make certain washer lip is bent up flush against the flat side of the head of the screw—this prevents screw coming loose.

With the Eclipse Bendix Drive it does no harm to engage the starter while the engine is running. However, it is recommended that care be taken in making a restart of the engine in case the first attempt does not result in the engine running. Wait and make certain that the engine and starting motor have both come to rest thus preventing the meshing of the pinion gear with the flywheel when the engine is back rocking just prior to its stopping.

Distorted springs can frequently be traced to engaging the drive for a restart without allowing a moment for the engine and starting motor to come to rest.

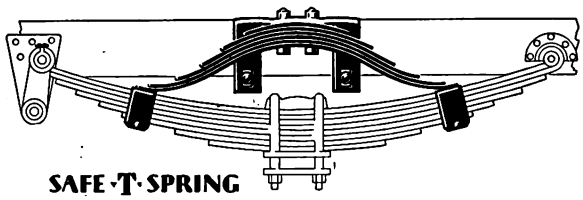
ECLIPSE MACHINE COMPANY, *Dept. 5*, ELMIRA, NEW YORK

Canadian Factory: **Eclipse Machine Co., *Limited*, Walkerville, Ont.**

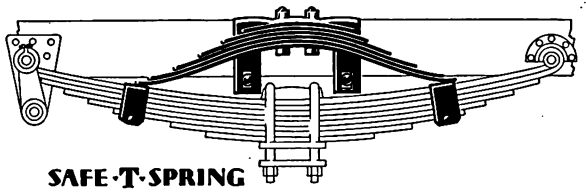
(Divisions of Bendix Aviation Corporation.)

Digitized by Google

TRAINOR
SAFE-T-Springs



SAFE-T-SPRING
WITH NORMAL LOAD



SAFE-T-SPRING
BROUGHT INTO PLAY BY EXCESS LOAD

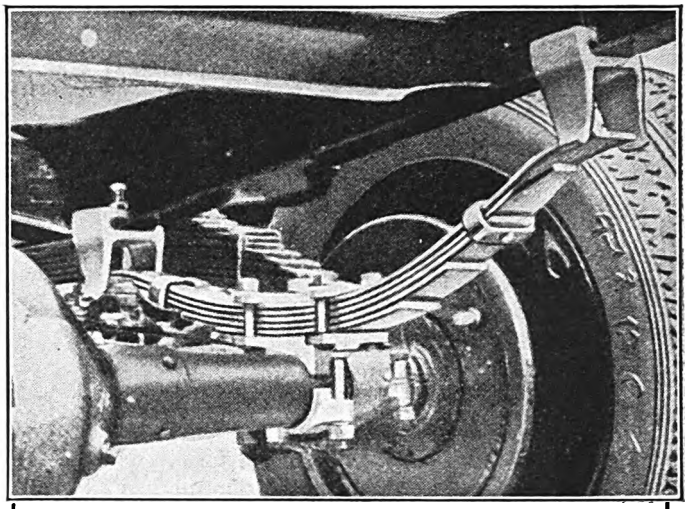
Enable each truck to haul one more ton per trip. This is an auxiliary spring that absorbs the added weight without putting any strain on the regular springs. It eliminates any danger of broken springs, taking up sudden jolts and jars that so often cause spring breakage. Eliminate side-sway, thus keeping "load" level. Tests have proven that a set of Safe-T-Springs actually pay for themselves in a few weeks.

Trainor Springs for all Cars and Trucks

Trainor Springs are made from high carbon steel, S.A.E. analysis No. 1095, or Silico Manganese Steel, S.A.E. analysis 9250.

All Trainor Springs are thoroughly tested before leaving the factory; and all are warranted to be free from any defects in material and workmanship. This warranty is backed by an organization having 38 years of practical spring experience.

TRAINOR
National Spring Co.
Newcastle, Indiana



VULCAN

SEMI-ELLIPTIC

OVERLOAD SPRINGS

FOR FORD MODEL AA

We are also featuring a lower priced set of quarter elliptic Overload Springs for Ford Model AA.

VULCAN OVERLOADS

for other makes are correctly designed for each individual job. Quotations on our complete line furnished on request.

VULCAN REPLACEMENT SPRINGS

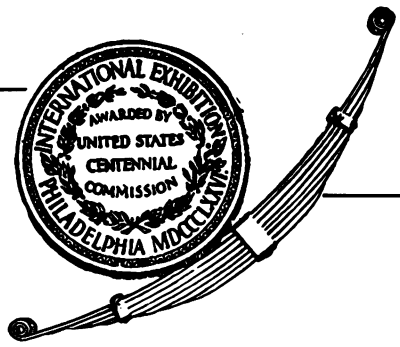
and LEAVES for all models cars and trucks can be furnished immediately from stock.

VULCAN products will give you entire satisfaction because of their superior quality.

Write for our complete catalog and quotations.

JENKINS
VULCAN SPRING COMPANY
RICHMOND, INDIANA
U. S. A.

Digitized by Google



ROWLAND SPRINGS

For Both
Original Equipment
and REPLACEMENT

QUALITY PRICE
SERVICE

Guaranteed an exact duplicate of the original equipment.

WRITE FOR CATALOG COVERING ALL MODEL PASSENGER CAR AND TRUCK SPRINGS

Wm. & Harvey Rowland, Inc.
Frankford, Philadelphia, Pa.
Spring Makers Since 1844

Established 1806

Fundamental Changes in Manufacturing Methods

ASSURING IMPROVED RIDING QUALITIES

Always Good

Tested MOOG ST. LOUIS Springs

Now Better

The popularity of our product caused such rapid growth in our sales that increased production was necessary. By installation of improved machinery we have been able to increase this four times . . .

One of these improvements is an Electric Drawing Furnace — Electric heated — Automatic electric control—conveyor type —assuring absolutely even heat throughout the entire drawing process, which Brinell tests show finished product to be what has always been desired by Spring Makers, but hard to obtain.

Buy Moog Tested Springs

Give your customer the kind of springs he always expected to get—

REMEMBER—
MOOG SERVICE
means
PROMPT SHIPMENT

Tested MOOG ST. LOUIS Springs
ST. LOUIS SPRING COMPANY
MANUFACTURERS OF
AUTO AND TRUCK SPRINGS
3135-37-39 WASHINGTON BOULEVARD
SAINT LOUIS
MISSOURI

Cable Address "Autospring"

Digitized by Google

EVERY TYPE OF SPRING FOR EVERY CAR TRUCK AND BUS

Service-Indianapolis-Springs manufactured according to the latest and most modern methods of spring engineering, meeting the exact standards and developments of science, have gained international prestige with those who desire and demand material efficiency and economical maintenance with complete satisfaction.

Many members of the National Standard Parts Association, as well as other automotive parts and equipment distributors, have recognized and expressed preference for Service-Indianapolis-Springs. The feeling of security in supplying their customers with springs which are built to exact specifications in one of the best equipped spring plants in the United States is one of their most valuable assets.

A great many State Highway and City engineers, as well as car owners and fleet operators, have standardized on Service-Indianapolis-Springs.

For ten straight years they have been meeting with a steadily increasing demand; every user has a good word for them and takes pleasure in recommending them to others. No higher tribute can be paid to any product.

ASSURE YOUR CUSTOMERS OF QUALITY

WRITE FOR COMPLETE SPECIFICATION CATALOG

SERVICE SPRING COMPANY

735 ST. PAUL STREET

INDIANAPOLIS, INDIANA

REPLACEMENT SPRINGS

Chicago-Quality

VALVE SPRINGS

Quality Springs for Quality Cars

Complete Listing
Always in Stock
Accurate Specifications
Prompt Service
Fair Price
High Quality
Dependable Replacement Springs

MANUFACTURED BY

CHICAGO COIL SPRING CO.

3101 CARROLL AVENUE

CHICAGO

Digitized by Google

BURTON SPRINGS of QUALITY

—are triple tested

Burton Springs of Quality are given a most thorough test and inspection before they are shipped to you. They are true to original specifications, therefore easily and quickly installed. Burton Quality Springs are first tested for quality of steels . . . then are manufactured by the most modern machines, and carried through by the latest engineering feats. Each type spring is individually brinnelled for hardness. In our last demand for uniformity each spring is given a series of breakdown tests —Quality must be assured in Burton Products.

Burton Quality Springs are made for all Cars, Trucks, Busses, and Taxicabs. We can make spot deliveries from our tremendous stock.

Write for details of our proposition—also for your copy of our new catalog No. 31, listing detailed specifications of all springs.

BURTON AUTO SPRING CORPORATION

General Offices & Factory
2433-41 WEST 48TH ST.
CHICAGO, ILL., U. S. A.
CABLE ADDRESS
"BURTSPRING" CHICAGO

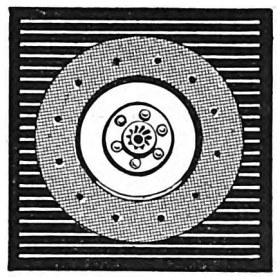
EASTERN OFFICE & WAREHOUSE
375 Kent Ave.
Brooklyn, N. Y.

NEW YORK BRANCH
551 W. 53rd St.
New York, N. Y.

FOR ALL CARS

TRUCKS
BUSSES
TAXICABS

ACCURATE CLUTCH PLATES



ACCURATE VALVE SPRINGS

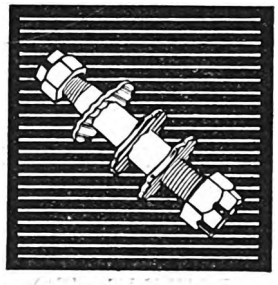
ACCURATE STARTER DRIVE PARTS

ACCURATE CONNECTING ROD BOLTS AND NUTS

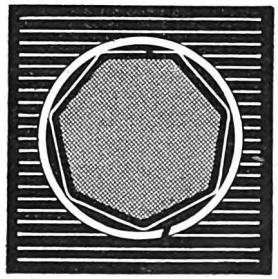
Branch Warehouses at
New York Kansas City Chicago San Francisco

Accurate
The ACCURATE PARTS MANUFACTURING COMPANY
Factory and Principal Warehouse
735 Central Avenue + + + Cleveland, Ohio

ACCURATE UNIVERSAL JOINT BOLTS AND NUTS



PEPPY INNER RINGS



FOR PRACTICALLY EVERY CAR TRUCK TRACTOR BUS RUNNING TODAY

Digitized by Google

AMERICAN FLEXIBLE METAL HOSE AND TUBING for Automotive Uses

FLEXIBLE METAL TUBING

LARGE STOCKS

Price Sheet Upon Application

Tubing for—

HEATERS — CARBURETORS EXHAUST LINES—TRACTOR AND TRUCK FUEL AND OIL LINES—AIR CLEANERS—WIRE COVERING, ETC.

JOBBERS

SPECIFY INSIDE AND OUTSIDE DIAMETERS, ALSO SERVICE FOR WHICH TUBING WILL BE USED AND INSURE IMMEDIATE STOCK SHIPMENT

SPECIAL TYPES OF HOSE AND TUBING TO SPECIFICATIONS

THE AMERICAN METAL HOSE CO.

MAIN OFFICE & FACTORY

WATERBURY, CONN.

SALES OFFICES NEW YORK, BOSTON, CHICAGO AND PITTSBURGH

WIPING CLOTHS

(Washed and Sterilized)

Washers and Manufacturers of Domestic White

Extra Balbriggan Wiping and Polishing Cloths

Refreshingly Clean—Soft—Lintless. Your choice of three sortings—Summer Weights, Winter Weights, Mixed Weights. Washed, Sterilized, Sleeve-slitted.

Prime Light Wiping Rags

Clean — Soft — Bright — Light Weights. Generous Sizes. Better service at Lesser Cost. Washed and Sterilized.

Soft Absorbent Wiping Rags

For wiping oil, grease, etc. Mixed Weights in generous sizes, laid out flat, rolled up in small bundles. Suitable for all work around the shop. Washed and sterilized.

Selling Direct From Manufacturer to Consumer

No Agents or Agencies but thousands of satisfied regular customers throughout the entire country—some in your own vicinity.

CONSUMERS PAPER COMPANY

Operating Consumers Washery

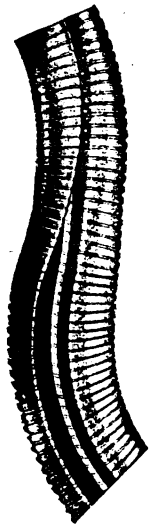
6301-6331 E. Lafayette Avenue

Detroit *Michigan*

Digitized by Google

REX-TUBE FLEXIBLE TUBING

IS CONSTRUCTED TO EASILY MEET EVEN YOUR MOST EXACTING DEMANDS



This is the new Rex Slit-Hinged Flexible Tubing which slashes installation time and correspondingly increases profits by reducing labor costs. Made from best galvanized steel stock in standard sizes.

(Pat. Applied For)

Rex-Tube flexible tubing is made from the best metals obtainable, and manufactured with skill that is the result of 28 years of specialization. This is your guarantee that in Rex Tube Products you get the best flexible hose that human ingenuity and money can produce.

Our new Rex-Tube Slit-Hinged Flexible Tubing has established an entirely new and vastly better style of flexible tubing for forced draft automobile heaters. No better tubing can be secured. Then our quantity production, with no sacrifice in quality, enables us to give this material at attractive prices.

Rex-Tube Flexible Tubing has been the standard of quality for 28 years. It combines unusual flexibility with uniform strength. Made from galvanized steel, brass, zinc, bronze, aluminum in all standard sizes.

For Every Flexible Tubing Requirement

Heater Tubing
Exhaust Tubing
Carburetor Tubing
Wire Conduit
Battery Cable Conduit
Chassis Lubricating Systems

Rex-Tube Flexible Slit-Hinged Tubing is best equipped for the work.

CHICAGO TUBING & BRAIDING CO.

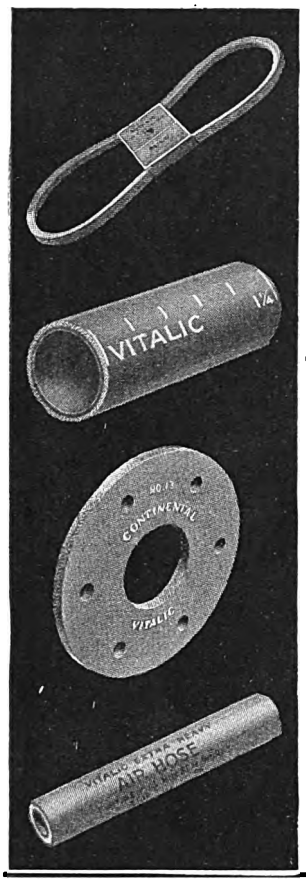
216-224 NO. CLINTON STREET CHICAGO, ILLINOIS

Eastern Subsidiary
REX-TUBE PRODUCTS CO.
1728 S. 3rd St., Philadelphia, Pa.

Digitized by Google

Tougher than *Elephant Hide*

VITALIC RUBBER PRODUCTS



- FAN BELTS
- RADIATOR HOSE
- AIR HOSE
- GASOLINE HOSE
- WELDING HOSE
- WATER HOSE
- WASH RACK HOSE
- PUMP TUBING
- CHANNEL RUBBER
- RUBBER MALLETS
- TIRE FLAPS
- RIM STRIPS
- TIRE PATCHES
- VALVE BASES
- HOOD SILENCERS
- BATTERY CASES
- RUBBER DUST CAPS
- BICYCLE TIRES
- UNIVERSAL JOINT DISCS
- GENERATOR COUPLINGS
- WINDSHIELD WEATHER STRIPS
- WINDSHIELD WIPER TUBING
- RUNNING BOARD MATTING
- HOT WATER CAR HEATER HOSE
- TIRE CHAIN TENSION SPREADERS
- HI-PRESSURE CAR WASHER HOSE

For complete information, ask your Jobber Salesman or write direct to—

CONTINENTAL RUBBER WORKS
ERIE, PENNSYLVANIA
Chas. E. Kerner, 152 Chambers St., New York City
Exclusive Foreign Representative

25 Years of Service to the Automotive Trade

GOOD-WILL BUILDERS BY COMFORT

FORM 119 COMFORT PRINTING SPECIALTY CO., ST. LOUIS, MO.

Courtesy Card

Slipson Door Handle or Steering Wheel

Thanks!

Without charge we have done the following:

Cleaned your windshield ✓
Filled your radiator with water ✓
Your gas tank is 1/4 full
Your oil is: O. K. ____ Needs changing ✓ ____ Needs replenishing ____
Inflated your tires ✓

Wilson Motor Co.
East Sixth St. St. Louis, Mo.

Actual size 3" x 5"

COURTESY CARD
FORM 119

"THANK YOU" goes A long way in bringing back your customers. This form will make a lasting impression.

Delivered Prices

500	$5.50
1000	7.50
2500	15.00
5000	26.00

Includes imprinting your name and address.

RENTAL BATTERY REMINDER—FORM 159
ITS BRIGHT RED COMMANDS ATTENTION

COMFORT ST. LOUIS — FORM 159

ATTENTION
Your Car is using one of our **SERVICE BATTERIES**
Don't neglect to get your Battery on 1-15-1430
and save unnecessary rental charges at per day

Actual size 2¼" x 1⅜"

Delivered Prices

500	$2.25
1000	2.75
2500	5.50
5000	9.00

1000 7½" Wires .50

OIL CHANGE STICKER—FORM 270
A SPLENDID BUSINESS BUILDER—KEEPS YOUR CUSTOMERS COMING IN REGULARLY

1000 FOR ONLY $3.00
DELIVERED

Includes Your Name and Address Printed

CHANGE YOUR OIL
AGAIN AT 1200 MILES
JOHNSON MOTOR CO.
15th & St. Clair Ave. Macon Ga.
FORM 270

Full Size

PARTS TAG—FORM 82
KEEPS THE STOCKROOM NEAT AND TRIM—SPEEDS UP WORK—CUTS OUT MISTAKES

Delivered Prices

500	$1.50
1000	2.50
2500	4.50
5000	7.50

1000 12" Wires. .75

PART NO. X1300
MODEL 1930 Sedan
PRICE $1.20
FORM 82 COMFORT PRINTING SPECIALTY CO., ST. LOUIS

Actual size 2¼" x 1⅜"

A Form for Every Need—Write for Samples

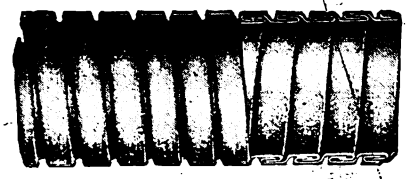
COMFORT PRINTING SPECIALTY CO.
107 No. EIGHTH ST. ST. LOUIS, MO.
"COMFORT QUALITY IS WORTH THE PRICE"

Digitized by Google

FLEXIBLE TUBING

for
HEATERS . . . CARBURETORS . . . EXHAUST SYSTEMS
Also Used for AIR CLEANERS, OIL LINES, *Etc.*

All Sizes in Stock
From 3/16" to 6"



Leading Motor Car, Truck, Tractor, Carburetor and Heater Manufacturers use Interlock Tubing as standard equipment.

SPECIFICATIONS

Brass Nickeled—Plated Conduit for Spotlight or Headlight Wires

Type "AA"

9/32"	In. Dia.	x	3/8"	Out. Dia.	
3/8"	" "	x	15/32"	" "	
7/16"	" "	x	17/32"	" "	

Single Groove Conduit or Wire Casing — Cord Packed

Type "AE"

1/4"	In. Dia.	x	11/32"	Out. Dia.	
9/32"	" "	x	3/8"	" "	
5/16"	" "	x	12/33"	" "	
3/8"	" "	x	15/32"	" "	
7/16"	" "	x	17/32"	" "	
1/2"	" "	x	5/8"	" "	
5/8"	" "	x	3/4"	" "	

Exhaust Tubing for Trucks, Tractors, Interlocking. Heavy Four-Wall Type

Type "BB"

1 5/16"	In. Dia.	x	2"	Out. Dia.	
2"	" "	x	2 3/16"	" "	
2 1/16"	" "	x	2 1/4"	" "	
2 5/16"	" "	x	2 1/2"	" "	
2 1/2"	" "	x	2 3/4"	" "	
2 3/4"	" "	x	3"	" "	
3"	" "	x	3 1/4"	" "	

Tubing Sizes Used by These Leading Manufacturers Carried in Stock

CARBURETORS

STROMBERG
SWAN
WINFIELD
ZENITH
SCHEBLER
CARTER
MARVEL

HEATERS

CHANSON
LINDENDOLL
FRANCISCO
BOVEY
GLADIATOR
TEMME
KUNKEL
STEWART-WARNER
PERFECTION
ARVIN, WEATHER-KING
KELCH, WOLVERINE, IRVING
COOPER
RED-CAT
KYSOR
N-L

Interlocking Carburetor Tubing. No Unravelling or Loose Ends when Cutting.

Type "B"

27/32"	In. Dia.	x	1"	Out. Dia.	
7/8"	" "	x	1 1/16"	" "	
29/32"	" "	x	1 1/16"	" "	
31/32"	" "	x	1 1/8"	" "	
1 1/16"	" "	x	1 1/4"	" "	
1 1/8"	" "	x	1 5/16"	" "	
1 3/16"	" "	x	1 3/8"	" "	
1 1/4"	" "	x	1 7/16"	" "	
1 5/16"	" "	x	1 1/2"	" "	
1 3/8"	" "	x	1 9/16"	" "	
1 7/16"	" "	x	1 5/8"	" "	
1 1/2"	" "	x	1 11/16"	" "	
1 5/16"	" "	x	1 3/4"	" "	
1 11/16"	" "	x	1 7/8"	" "	
1 3/4"	" "	x	1 15/16"	" "	
1 13/16"	" "	x	2"	" "	
2"	" "	x	2 3/16"	" "	
2 1/16"	" "	x	2 1/4"	" "	
2 1/8"	" "	x	2 5/16"	" "	
2 1/4"	" "	x	2 7/16"	" "	
2 5/16"	" "	x	2 1/2"	" "	
2 1/2"	" "	x	2 11/16"	" "	
2 5/8"	" "	x	2 13/16"	" "	
2 3/4"	" "	x	2 15/16"	" "	
3"	" "	x	3 3/16"	" "	
3 1/16"	" "	x	3 1/4"	" "	
3 5/16"	" "	x	3 1/2"	" "	
3 1/4"	" "	x	3 7/16"	" "	
3 1/2"	" "	x	3 11/16"	" "	
4"	" "	x	4 1/4"	" "	

Caution: When ordering be sure and mention type and employment of tubing with inside and outside diameters.

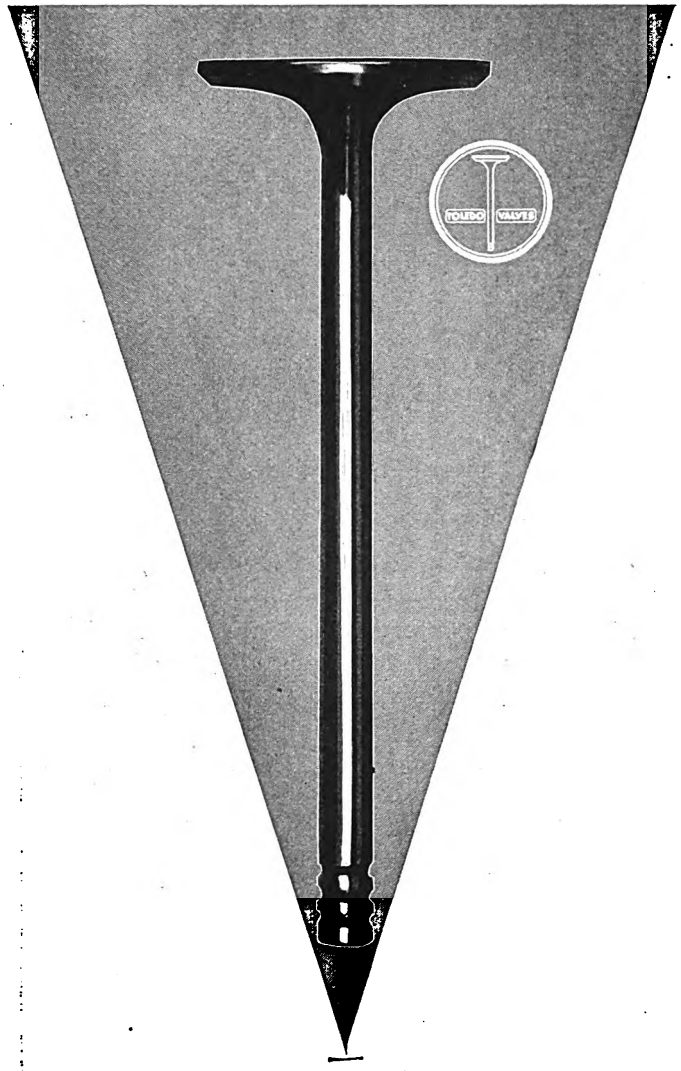
JOBBERS! SEND FOR NEW LIST AND NEW DISCOUNT SHEET

Manufacturers of Interlocking Flexible Metal Tubing
Gasoline Hose (Metal Lined, Rubber and Fabric)
Flexible Metallic Tubing
Flexible Car Wiring Conduit
Hose Couplings

International Metal Hose Co., Inc.

Factory: 10109-15 Quincy Ave. *Cleveland, Ohio*

Digitized by Google



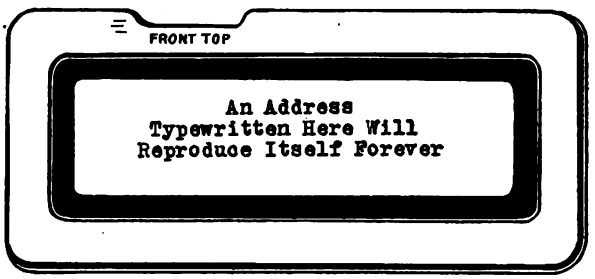
YOUR WEDGE TO MORE BUSINESS

The outstanding superiority and amazing performance of Toledo "Super-Forged" Valves are solid, substantial facts on which you can build a constantly increasing volume of profitable valve business . . . Made of special heat resisting steel, Toledo "Super-Forged" Valves do not warp, pit or scale, a quality product with a splendid margin of profit.

THE TOLEDO STEEL PRODUCTS COMPANY
TOLEDO, OHIO, U. S. A.

New York: 17 West 60th Street
Atlanta: 279 Ivy Street, N. E.
Oakland: 3106 Adeline Street
Chicago: 1225 So. Wabash Ave.
Kansas City: 14th and Oak St.
Los Angeles: 216 N. Alameda St.

TOLEDO VALVES



Actual size of Elliott "Typewriteable" Stencil-Cards is 2" x 4½". All Fibre. No metal. Compact. Light-weight. Durable. Serve as complete INDEX-FILE as well as automatically printing their own addresses.

HOW TO GET BUSINESS IN AUTOMOTIVE LINES

(1) Consult the publishers of Chilton Multi-Guide as to how to secure an up-to-date authentic list of dealers, car owners or other classifications of names in your locality.

(2) Stencil these names into Elliott "Index Cards that Print their own Addresses"—as shown above.

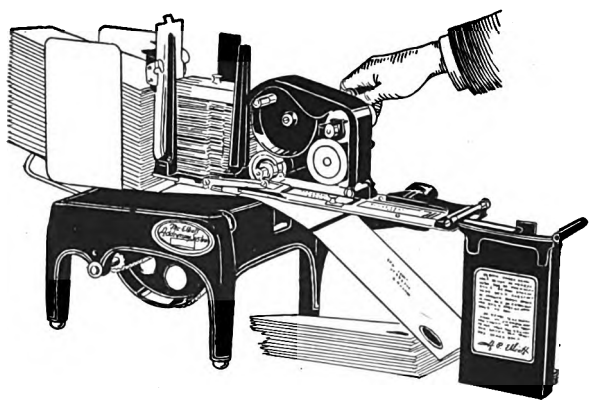
(3) Use an Elliott Addressing Machine for keeping in constant AUTOMATIC selling contact with these names—BY MAIL.

The Elliott System of Mechanical Addressing offers you the simplest, surest, most economical means of accurately controlling and cashing-in on the great business-getting power of Mail Advertising. A single machine will handle all of your bill and statement heading, label, wrapper, tag addressing, pay-roll work and other routine name-writing as well.

Write us for Catalog and Free Books on Direct Mail Advertising.

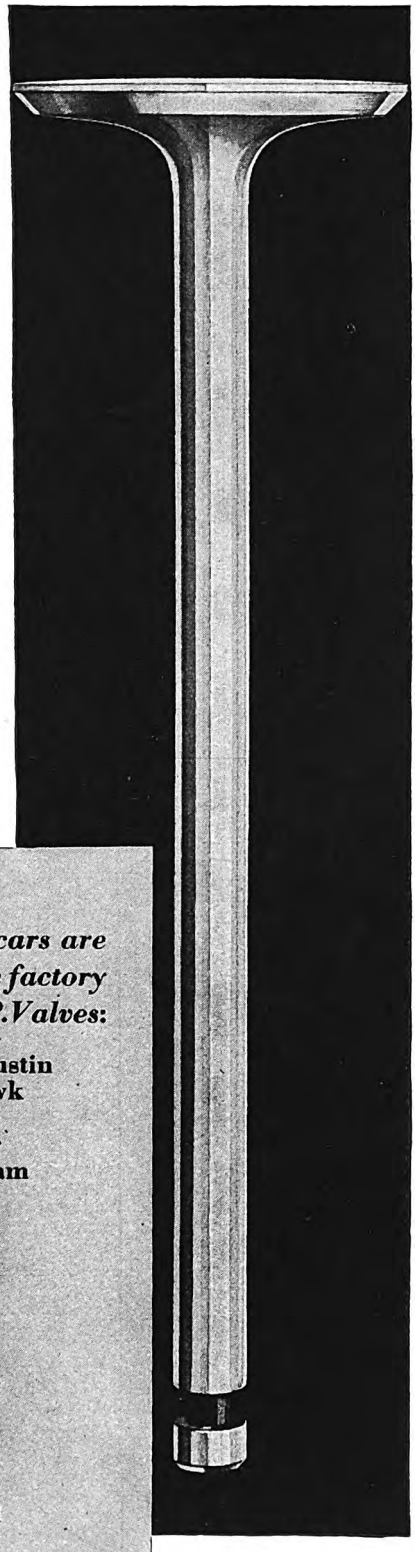
The ELLIOTT ADDRESSING MACHINE COMPANY

Cambridge, Mass., U. S. A.



"Elliott" is the largest maker of high-speed automatic addressing machines in the world. Above is shown a small popular-priced model with astounding speed of 125 addresses per minute. 49 other models, too.

Digitized by Google



The following cars are equipped at the factory with Rich-R.S.P. Valves:

American Austin
Black Hawk
Cadillac
Chrysler
Cunningham
Durant
Erskine
Essex
Ford
Hudson
Hupp
Jordan
La Salle
Lincoln
Marmon
Moon
Nash
Oakland
Packard
Peerless
Pierce-Arrow
Pontiac
Reo
Ruxton
Studebaker
Stutz
Whippet
Willys
Windsor

More motor cars are equipped at the factory with Rich-RSP Valves *than all other makes of valves combined*

RICH VALVES

manufactured by

WILCOX-RICH CORPORATION, *Detroit*

World's Largest Manufacturers of Automotive Valves

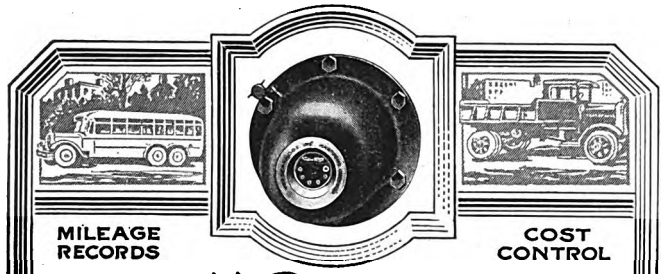
Sold for Replacement Purposes Exclusively Through

McQUAY-NORRIS MFG. CO. - - ST. LOUIS

AND

KING QUALITY PRODUCTS CO. - - ST. LOUIS

Digitized by Google



Veeder-ROOT

HUB ODOMETERS

Prove Your Values in

Truck Supplies

Supplies, equipment, replacement parts mean just one thing to your customer, the Truck Owner: MILEAGE!

Are you selling goods that give the mileage, without selling the thing that *tells* the mileage?—the Veeder-Root

HUB ODOMETER

Repeat-orders are written from *mileage* records—accurate records of truck performance; service-records of parts and accessories.

If you're selling lines that ought to *repeat*, sell Veeder Hub Odometers to prove it!

* * *

REGULAR MODEL (list)...$20.00

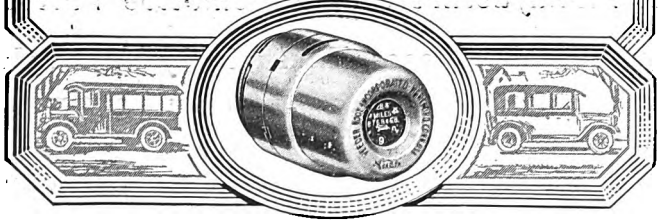
For Ford "Model A" Cars and Trucks, complete with threaded hub for attaching...$21.00

Informative circulars on request

Sales and Service Stations in

Atlanta, Ga.; Baltimore, Md.; Birmingham, Ala.; Boston, Mass.; Buffalo, N. Y.; Chicago, Ill.; Cincinnati, Ohio; Cleveland, Ohio; Dallas, Texas; Denver, Colo.; Detroit, Mich.; Indianapolis, Ind.; Kansas City, Mo.; Los Angeles, Cal.; Memphis, Tenn.; Montreal, Quebec; New Orleans, La.; New York, N. Y.; Omaha, Neb.; Philadelphia, Pa.; Pittsburgh, Pa.; Rochester, N. Y.; St. Louis, Mo.; St. Paul, Minn.; San Francisco, Cal.; Syracuse, N. Y.; Toronto, Ont.; Worcester, Mass.; Washington, D. C.—and other cities.

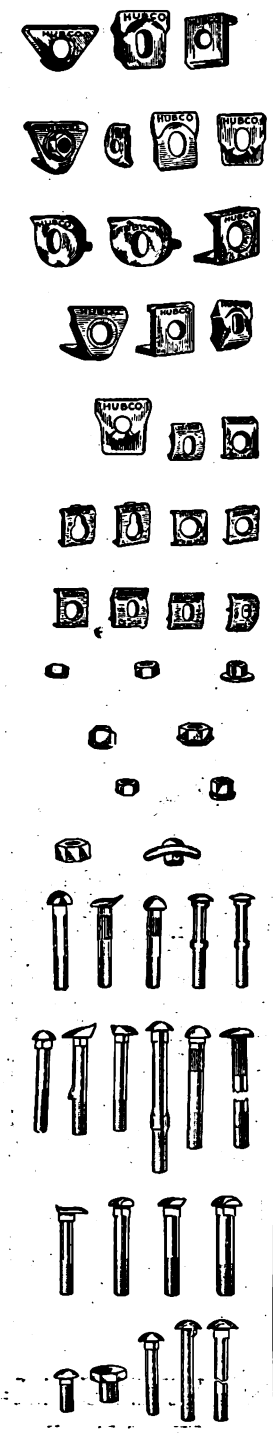
Veeder-ROOT INCORPORATED HARTFORD, CONN.



Rim Parts

for Replacement

Increase Both Sales and Profits

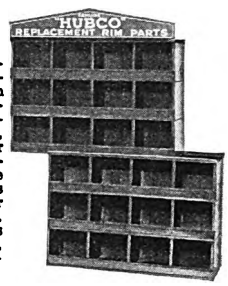


Give car owners the service they need. Sell spare rim parts—increase both your sales and profit.

The HUBCO Line offers a complete assortment suitable for all cars. Interchangeability permits a moderate stock of fast sellers with a reasonable investment. Packed in neat, substantial cartons or shipped in bulk. Get your detailed catalog today, showing all numbers.

HUBCO CABINET ASSORTMENTS

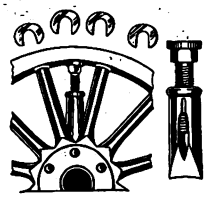
Attractive display cabinet furnished with each HUBCO assortment. Five complete assortments, provide Dealer and Service Station with wide variety of parts for cars popular in his locality. 12 spacious bins to each cabinet, cabinets interlock.



HUBCO JUNIOR RIM PARTS ASSORTMENT

Attractive three-color display. Only those parts that will service the most popular cars—each piece a fast seller. 112 pieces in assortment.

HUBCO WIRE AND DISK WHEEL RIM BOLTS AND NUTS INCLUDING FORD AND CHEVROLET SINGLE AND DUAL WHEEL TRUCK PARTS.



HUBCO SPOKE TIGHTENER

Tightens loose wheels making them as good as new. Pays for itself on first job.

HUBCO DOUBLE DUTY WRENCH FOR CHEVROLET CARS

Water pump pack nut is easy to adjust—with this wrench. Also keeps hub caps tight. Practical and economical for mechanic and car owner. Cadmium plated. Profit maker for jobber and dealer.

Write for illustrated catalog with full details, data, and specifications for all cars, including interchangeability tables. Special facilities for export trade.

THE HUBCO MANUFACTURING CO.

404 West Conway Street
BALTIMORE, MARYLAND

Digitized by Google

Motor Wheel

Smooth Sailing in Wheel Selling

More cars mean more wheels by Motor Wheel. Which means more wheels and service for Motor Wheel dealers.

As goes the motor world awheel so grows the Motor Wheel organization of dealers, ready to render complete service, supply parts, change from one type to another—wood, wire or steel—all being demountable on one hub.

See your nearest Master Distributor and join this great organization.

MOTOR WHEEL MASTER DISTRIBUTORS:

ALABAMA
Birmingham, Cruse-Crawford Wheel & Rim Co., 2921 Second Ave. S.

CALIFORNIA
Los Angeles, Pacific Wheel & Rim Service, 324 West Venice Blvd.
San Francisco, Suisman & Shayer, 1690 Pine St.

CANADA
Edmonton, Alberta, Loveseth Service Station, Ltd., Jasper at 106th St.
Montreal, Que., General Automobile Equipment, Ltd., 1486-98 Dorchester St., W.
Toronto, 5, Ont., Wheel & Rim Co., of Canada, Ltd., 27 Yorkville Ave.
Winnipeg, Manitoba, Ronald J. J. Muir, Ltd., 137 Lombard St.
Vancouver, B. C., Standard Equipment Co., Ltd., 1255 Seymour St.

COLORADO
Denver, Quinn & McGill Motor Supply Co., Broadway.

FLORIDA
Jacksonville, Southeast Wheel & Rim Co., 2320 Liberty St.

GEORGIA
Atlanta, Harris Rim & Wheel Co., 376 Spring St., N. W.

ILLINOIS
Chicago, Stone Wheel & Rim Co., 2540 S. Wabash Ave.

INDIANA
Indianapolis, Indiana Wheel & Rim Co., 40 W. North St.

IOWA
Davenport, Stone Wheel & Rim Co., 315 E. Second St.
Des Moines, Des Moines Wheel & Rim Co., 1427 Walnut St.

KANSAS
Wichita, Wheel & Rim Service, Inc., 222 S. Topeka Ave.

LOUISIANA
New Orleans, Shuler Supply Co., 1700-20 Poydras St.

MARYLAND
Baltimore, R. W. Norris & Sons, Gay & High Sts.

MASSACHUSETTS
Boston, Bearings & Motor Equipment Co., 784 Commonwealth Ave.
Springfield, United Wheel & Rim, Inc., 136 Dwight St.

MICHIGAN
Detroit, Rim & Wheel Service Co., 5132 Third Ave.
Grand Rapids, Rim & Wheel Service Co., 147 Weston St. S. E.
Lansing, Rule & Roberts, Inc., 409-411 N. Washington Ave.

MINNESOTA
Minneapolis, Pioneer Rim & Wheel Co., 24 S. 10th St.

MISSOURI
Kansas City, Wheel Rim & Service, Inc., 2110 Grand Ave.
St. Louis, Borbein, Young & Co., 3301 Washington Blvd.

NEBRASKA
Omaha, Morgan Wheel & Rim Co., 2216-18 Farnam St.

NEW YORK
Buffalo, Frey the Wheelman, Inc., 520 Ellicott St.
New York, Wheels, Incorporated, 835 Eleventh Ave.
Rochester, Frey the Wheelman, Inc., 50 Scio St.

NORTH CAROLINA
Charlotte, Carolina Rim & Wheel Co., 308 N. Graham St.

OHIO
Akron, Motor Rim Manufacturers Co., 370 Orleans St.
Cincinnati, Rim & Wheel Service, Inc., 804 Sycamore St.
Cleveland, Motor Rim Manufacturers Co., 1835 E. 24th St.
Columbus, Hayes Wheel & Spring Service, 203 E. Town St.
Toledo, Motor Rim Manufacturers Co., Canton Street at Smith.

OKLAHOMA
Tulsa, Wheel & Rim Service, Inc., 919 S. Elgin St.

OREGON
Portland, Wheel & Rim Service Inc., 14th and Everett Sts.

PENNSYLVANIA
Philadelphia, United Wheel & Rim Service, Inc., 3617-23 Lancaster Ave.
Pittsburgh, Joseph Woodwell & Co., 201 Wood St.

TENNESSEE
Memphis, Borbein, Young & Co., 848 Union Ave.

TEXAS
Dallas, Southwest Wheel & Rim Co., 2500 Commerce St.
Houston, Southwest Wheel & Rim Co., Travis & Bell Sts.
San Antonio, Southwest Wheel & Rim Co., 606-8 N. Alamo St.

UTAH
Salt Lake City, Success Tire & Rim Co., 73-79 West Fourth South St.

VIRGINIA
Richmond, Dixie Wheel Co., 723 West Broad St.

WASHINGTON
Seattle, McAlpin-Schreiner Co., Inc., 12th Ave. at East Pine St.
Spokane, Bearing & Rim Supply Co., 1125 First Ave.
Tacoma, McAlpin-Schreiner Co., Inc., 218-220 St. Helens Ave.

WISCONSIN
Milwaukee, Stone Wheel & Rim Co., 528 Milwaukee St.

EXPORT DEPARTMENT
C. O. Brandes, Motor Wheel Corp., 5713 Euclid Ave., Cleveland, O.

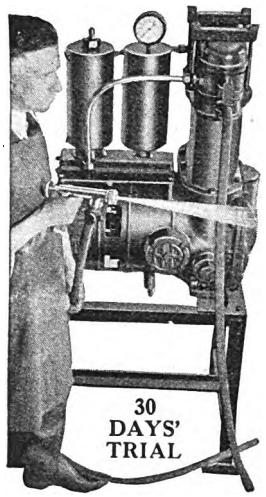
MOTOR WHEEL CORPORATION, LANSING, MICHIGAN

WOOD · WIRE · STEEL

INTERCHANGEABLE ON ONE HUB

Digitized by Google

Speedier—Better CAR WASHING than Your Competitors

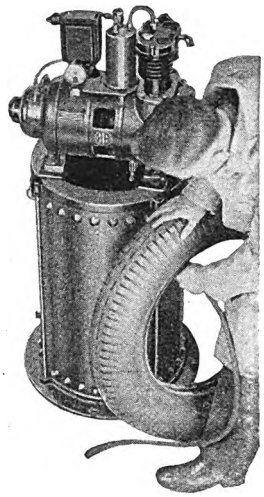


8 Gallons per minute lets you do all that others can do, and a lot more. Speeds up your work by 1/3 over smaller washers, makes it easier for your help and guarantees better washes yet uses less water because it is speedier to operate. Brings new customers to all departments and keeps used and new cars always ready for sale.

Investigate the advantages of HB Design and Construction for they insure better, quicker washing—yet cut the cost of labor, water, electricity and supplies.

Most attractively priced and comes to you on approval so you can check every advantage in your shop at our risk.

HB AIR SERVICE *—is better*



In no other compressor can you get the advantages that come to you when you install an HB Silent Twin Upright Automatic Air Compressor.

Silent—Twin Cylinder—Beltless. Its well engineered upright construction takes but a fraction of the space required by sprawled out units. No wonder it is being adopted by leading oil companies and wise service station owners.

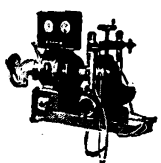
Mail the coupon below to get all details of the attractive values in HB compressors—from the sturdy little twin cylinder Wayside Outfit at $148 up to the big water cooled City Oil Station Unit.

30 DAYS' TRIAL—EASY TERMS

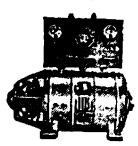
Every piece of HB equipment is so outstandingly satisfactory in results—and so well designed that we are willing to allow 30 days' trial in your shop—at our risk under absolute money-back guarantee. The coupon brings details without obligation.

PORTABLE PAINT SPRAY
Only $16 Monthly

"CONSTANT ARC" WELDER
Only $31 Monthly



ELECTRICAL TEST BENCH
Only $20 Monthly



8-HOUR BATTERY SERVICE
Only $16 Monthly

MAIL THIS TODAY

CHECK BELOW AND MAIL TODAY FOR INFORMATION

To Hobart Brothers, Box C50, Troy, Ohio:
Without obligation, send me full details of attractive prices, deferred payments, and 30 days' trial plan as applied to the HB Equipment checked below:

( ) Air Service
( ) Constant Arc Welder
( ) 20-Minute Car Washing
( ) Electrical Testing
( ) 8-Hour Battery Charging
( ) Portable Paint Spraying
( ) Buffers and Grinders

Name.....
Address.....

TO THE SMOOTH, ALMOST NOISELESS OPERATION OF ANY QUINCY COMPRESSOR

MODEL G-18

Two-stage, fully automatic. Displacement, 3¾ cu. ft. with ¾ H.P. motor, 4½ cu. ft. with 1 H.P. motor, 6 cu. ft. with 1½ H.P. motor. Tank, 20 x 48, 65 gals.

QUIET operation means mechanical perfection—every part so carefully designed, so nicely made and fitted that the very highest efficiency is obtained.

Power requirements and upkeep are amazingly low; and replacement is put off so long that it is hardly worth considering. Write for complete details about the always efficient Quincy Line. 14 sizes, air and water cooled.

QUINCY Compressors

217 Maine St., Quincy, Ill.

Service and Sales

Atlanta, Ga.	Cleveland, O.	Newark, N. J.
Birmingham, Ala.	Davenport, Ia.	New Orleans, La.
Boston, Mass.	Detroit, Mich.	St. Louis, Mo.
Chicago, Ill.	Kansas City, Mo.	Waco, Tex.
Cincinnati, O.	Memphis, Tenn.	Washington, D. C.

Also in Other Important Centers

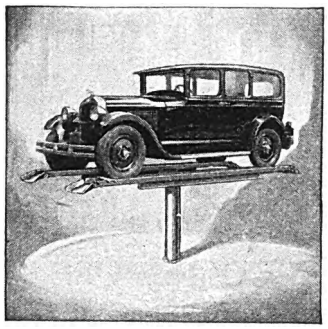
N1058 R2

Digitized by Google

Curtis Equipment

for the modern service station

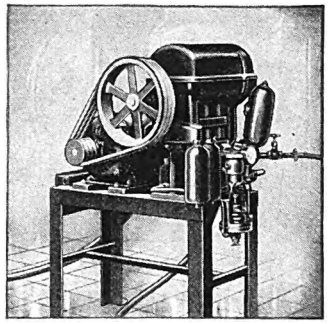
A complete line of dependable equipment — backed by 76 years of engineering and manufacturing experience—sold at prices which are not excessive — on sale by distributors all over the world



The Value in having Compressor TimkenBearingEquipped

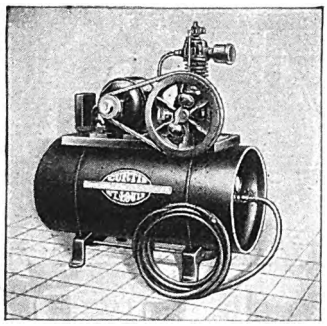
Practically no wear. Elimination of friction lowers operating costs. "Tapered" bearings permit adjustment for wear to keep Curtis always at maximum efficiency.

TIMKEN BEARING EQUIPPED

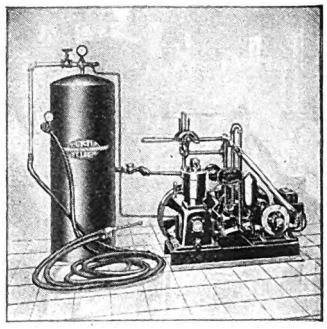


Curtis Rotating Auto Lift: — Roll-on and free-wheel types. Ultra safe. Large 10" diameter piston. Held in any position by positive oil-lock. Never any air in cylinder. Cannot be lowered except at will of operator. Rotates freely at any height. No dangerous pits or recesses. Nominal installation expense. Licensed under the basic Lunati Patents.

Curtis Silent Hydraulic Car Washer:— Low priced, self contained washer. One and two gun sizes. Slow speed three cylinder pump, specially designed by Curtis for car washing. Flooded and direct self oiling systems. No grease cups. Alloy-steel rust-resisting, double heat treated nozzle discs. Automatic pressure governor. Self closing nozzle.

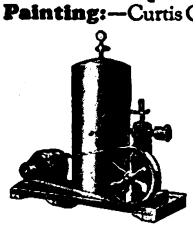


Write for Catalog C-76 giving details on complete Curtis Line.



Curtis Timken Bearing Compressor: — Centro-ring Oiling assures positive lubrication. Silent Automobile type, "V" Belt—No manual adjustments or tightener required. Centrifugal unloader—positive protection against starting under load. Universal motor mounting.

Curtis Compressor Units for Spray Painting:—Curtis Controlled Centro-Ring Oiling System found only in the Curtis compressor, especially valuable in spray painting. Suction valve type unloader prevents oil pumping. Filter clogging minimized. 1 and 3 gun-capacity, stationary and portable.



Curtis Compressed Air Car Washer: — Duplex Timken Bearing Compressor—20 cu. ft. capacity. Compact mounting. Reduced weight. Renders complete cleaning service. Operates air tools and devices, inflates tires, besides washing cars faster and better. Maximum cleaning action without excessive water pressure.

Curtis Air Stands: — **Tower and Reel Types** with or without water connections. Tower type non-whipping oil cushioned. Rotates on ball-bearing. Hose self-returning in reel-type. Spring tension easily adjusted. Both types keep air hose off the ground. Both cast metal construction painted impervious to weather.

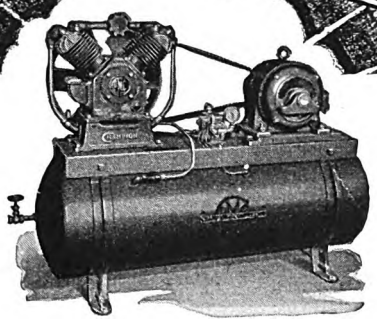
CURTIS

CURTIS Pneumatic Machinery Company *St. Louis*

Curtis Pneumatic Machinery Co., 1927 Kienlen Ave.

Digitized by Google

CHAMPION



AIR COMPRESSORS

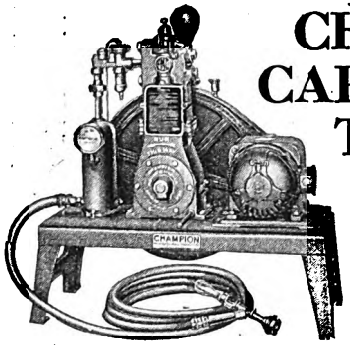
POWERFUL — COMPACT QUIET

Designed for Continuous Operation

CHAMPION Single Stage, Four-Cylinder — Ball-Bearing "V" Type, Air Cooled Compressors SE-28 and SE-39.

Displacement 28 to 36½ cubic feet of air per minute. Due to CHAMPION cylinder and piston design, these compressors may be operated continuously without danger of overheating or loss of efficiency. No water connections or piping necessary and no danger of freezing in cold weather. Complete, ready to run when connected to electric current.

Exceptionally smooth running and quiet because of distribution of impulse and load.



CHAMPION CAR WASHER Type H-1

Even Small Service Stations Make BIG Profits With CHAMPION "H" Car Washers

This CHAMPION car washer is LOW IN PRICE, but HIGH IN EFFICIENCY. The smaller garage or service station, equipped with an H-1 CHAMPION washer can turn out the same washing job as an elaborately equipped establishment.

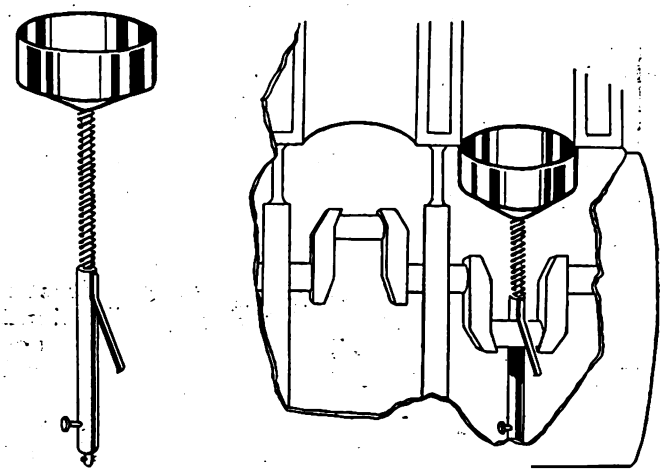
"H-1" Model, has 1 h.p. Ball Bearing Motor and furnishes 5 gallons of water per minute at 300 lbs. pressure. Model "H-2" has 1½ h.p. Ball Bearing Motor and delivers 7 gallons of water per minute.

Write today for CHAMPION catalog describing and illustrating special values in modern developments of both single and two-stage air compressors, service towers, carwashers, and other dependable garage, shop and service station equipment.

Champion Pneumatic Machinery Co.

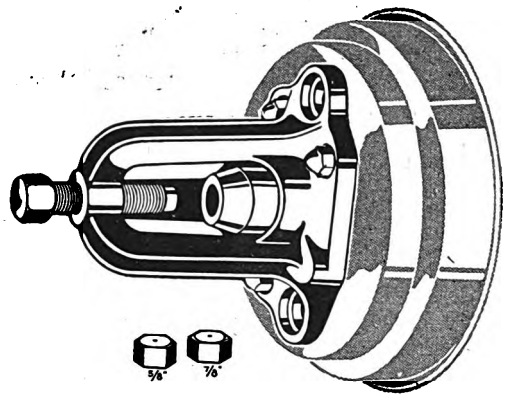
8170 South Chicago Ave.
CHICAGO, ILLINOIS

AMCO Automotive Products



AMCO REFUSE TRAP

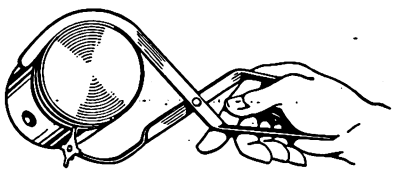
Complete protection to crankshaft bearings and other parts of motor. Equally efficient with wet or dry hone. Made of copper—extremely flexible—only 1/32" thick. Furnished in sets or single sizes.



FORD WHEEL PULLER

Ford Wheel Puller will pull all Model A-AA both front and rear. Price $8.00, wgt. 9 lbs.

AMCO UNIVERSAL PISTON GROOVE CLEANER



A combination tool—will clean carbon in following groove sizes: ⅛", 3/16", 5/32", and ¼". Can also be used to deepen grooves for inner rings. List price —$1.25.

OTHER AMCO PRODUCTS

Upper Motor Lubricators
Ford Model A Starter and Choke Controls
Wheel Pullers (all types)
Improved Tappet Wrenches
Model A Grease Retainer Pullers
Axle Shaft Roller Bearing Sleeve Pullers
Piston Ring Compressors
Piston Ring Tools
Universal Piston Vise
Gear Pullers All Types
Generator Bracket Savers
Jacks
Spanner Wrenches
Generator Flexible Coupling Pullers—Essex and others
Arbor Presses
Window Anti-Rattlers
Hub Cap Wrenches
Flaring Tools
Fender and Body Repair Tools
Also many new special tools for Model A Fords

BATTERY SHOP TOOLS

Post Reducers
Battery Holddowns
Battery Carriers
End Cutters
Post Builders
Battery Heaters
Terminal Pullers
Generator and Small Gear Pullers
Battery Nut Pliers
Battery Post Adapters

AMCO PRODUCTS ARE GUARANTEED

Write for Complete Catalog

ACORN MFG. CO., ERIE, PA.

Digitized by Google

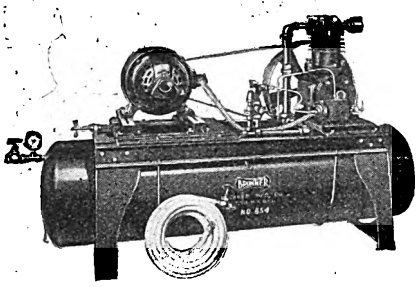
BRUNNER

CARE WILL SAVE YOUR CAR

Brunner Air Compressors pioneered the automotive field. For twenty-five years they have upheld an enviable reputation for dependability: They embody every proven feature in compressor constructions. Automotive jobbers the world over sell Brunner Air Compressors and pneumatic equipment.

BRUNNER MFG. CO., Utica, N. Y.

AIR COMPRESSORS



Model 854, Assembled Automatic Outfit

There is a Brunner Air Compressor for every type of automotive duty, from the small installation supplying a single air line to the big compressor supplying the super service station.

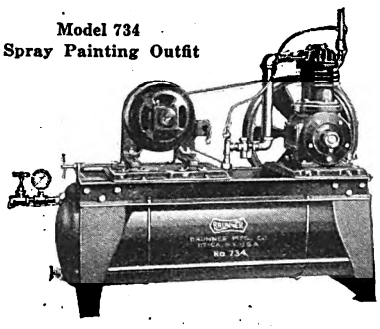
The Brunner line provides Compressors from 1.5 to 30 cubic feet displacement, air and water cooled, stationary and portable. Model 854 is a typical general duty assembly incorporating a two cylinder 3x3 compressor capable of handling the average installation of 2 free air lines and 3 gasoline pumps.

SPRAY PAINT EQUIPMENT

The Brunner Spray Painting equipment includes everything from the compressor to the gun.

Model 734 is popular among automobile paint shops and refinishing rooms. It supplies sufficient air to operate one flat-spray gun. There are two 3x3 cylinders driven by a 1½ H. P. motor. The unloading valve is built into the head of the compressor and closes the intake valve when pressure in the tank reaches 100 lbs., keeping it closed when gun is not in operation thus permitting the compressor to run idle.

Model 734
Spray Painting Outfit



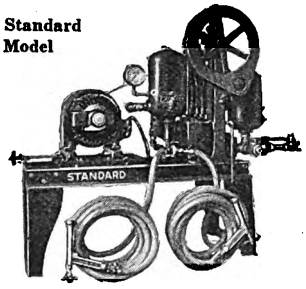
Spray Gun Model 300, designed for all-around duty, is light in weight, well-balanced and made of die cast aluminum. The one quart spun-aluminum cup has an opening large enough for insertion of entire hand. Easily cleaned. A twist of the nozzle cap produces either fan or round spray. This gun atomizes perfectly, and can be used on lacquers, enamels and paints.

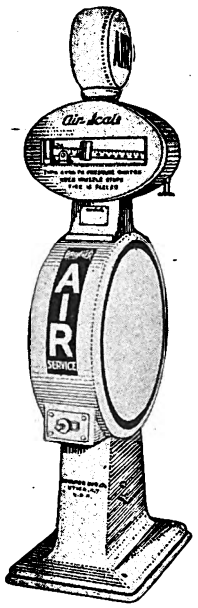
Model 300 Spray Gun

CAR WASHERS

Brunner Washers have won a reputation for efficient, care-free performance. The improved triple cylinder arrangement, in conjunction with large cushioning chambers, eliminates all surging and hammering. Designed for slow, smooth operation. Brunner Washers are made in 3 sizes: Junior, one gun outfit; Standard, two gun outfit; Heavy Duty, three gun outfit. The Standard is ideal for wash racks servicing 50 to 75 cars per day. Handles 7 gallons of water per minute at a guaranteed pressure of 300 lbs. Three cylinder pump, 1½x3 in. 2 H.P. Motor. Furnished completely equipped.

Standard Model





Reel Model

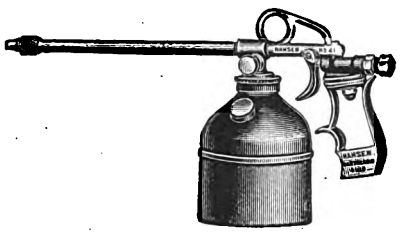
BRUNNER AIR SCALES

These attractive trade-winners are very accurate and easy-to-operate. A turn of the knob sets the scale at the desired pressure; when this pressure is attained the user is automatically signalled. Brunner Air Scales are furnished in 4 popular models for outside or indoor service. There is also an Air Tower without scale. The Reel Model shown here is particularly attractive: it has an automatically returning hose.

EQUIPMENT

A WORLD'S STANDARD OF DEPENDABILITY

Digitized by Google



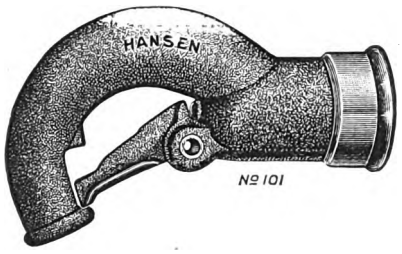
16 inches

HANSEN SPRING OILER No. 41

An appliance for use with light or compounded oil in the lubricating of automobile springs and adaptable for other uses.

SPECIAL FEATURES

Individual control of both the air and liquid.
Aluminum pistol grip insures ease and accuracy in handling.
One quart copper plated can.
Air line connection ¼".
Full bright nickel finish.
Complete with can ..... List $16.00



HANSEN WATER VALVE No. 101

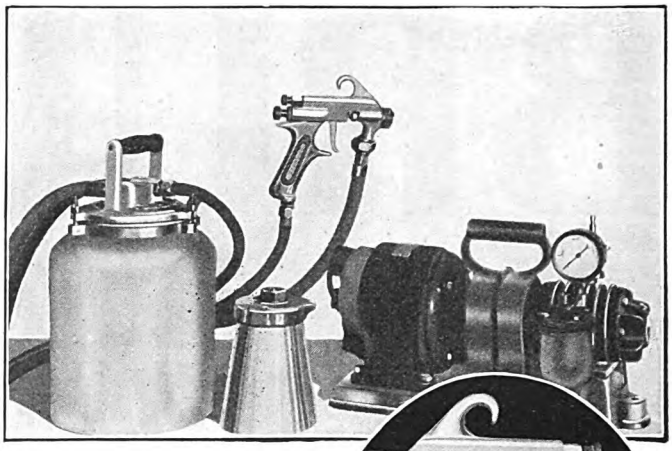
U. S. Pat. No. 1,664,816

An entirely new type of radiator filling valve. The pressure of the water automatically closes the valve. It can be operated by hand, or by pressing the valve lever on the edge of the opening in the radiator. List $3.30. The only replacement part, a ⅝" flat bibb washer.

No Caps to Leak
No Handles to Break — No Springs to Wear

THE HANSEN MANUFACTURING CO.

1786 East 27th Street
CLEVELAND OHIO



Two gallon pressure tank. Completely hand portable. Weighs only 50 lbs. Plugs into any light socket.

All-Purpose Electric Sprayit

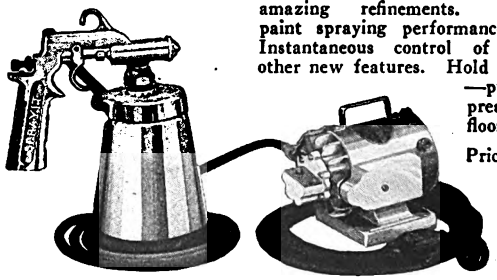
Complete with ½ H. P. Motor, powerful compressor, 2-gallon capacity aluminum container for paint, newly designed gun, with simple accurate adjustments for striping from a thin pencil line to the widest fan spray; also includes an aluminum quart container for attaching directly to gun for small touch-up jobs. One complete outfit, in itself the necessary equipment for a modern profitable painting department. Price f.o.b. South Bend $149.50

AL-2 Gun

for Use on Any AIR LINE

The Sprayit No. AL-2 pressure feed cup gun is easy to clean and simply adjusted to give either a wide or narrow spray, a horizontal or vertical fan, as desired. It is designed for use on any air line of from thirty-five to eighty pounds pressure and 5 cu. ft. capacity. Write for complete information on this gun and full line of air conditioning units.

No. 65 Electric Sprayit



The famous Sprayit with many new amazing refinements. Revolutionizes paint spraying performance and results. Instantaneous control of spray, many other new features. Hold 1 lb. gun only —put rotary compressor unit on floor or ladder. Price. $39.50

ELECTRIC SPRAYIT CO., INC.

1704 E. Colfax Ave., South Bend, Ind.

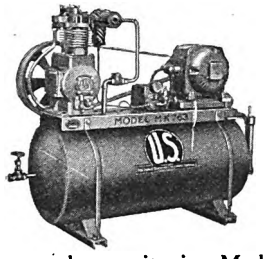
Digitized by Google

U. S. 1931 Super-Servers

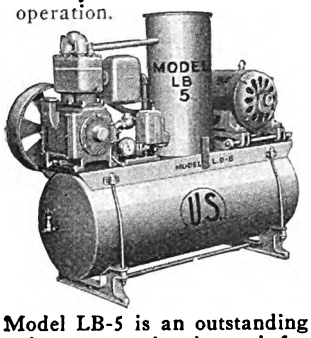
Air Compressors—Paint Spray Units—Car Washers—Electric Grease Guns—Hydraulic Car Lifts

AIR COMPRESSORS

U. S. Air Compressors are noted for exclusive features such as the U. S. Patented Motor Base which saves wear on belt, and reduces current consumption, and many quality features such as Timken Roller Bearings, Dual Oil ring system and Vacuum Crank Case. Here is a new series of two-stage, air-cooled air compressors built for heavy duty and continuous operation.



A popular unit is Model MK-763, which has a two h.p. motor, a 60-gallon tank and a capacity of nine cubic feet of air per minute at 175 pounds. It has the superior U. S. two-stage compressor unit and quickly attains high pressures with a minimum of current consumption; plus many new U. S. features that give it an unusual economy, efficiency and trouble-free operation.

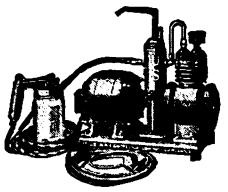


Model LB-5 is an outstanding unit to meet the demand for a heavy-duty compressor capable of continuous operation and to supply a steady volume of air in large quantities for tire inflation, paint spraying, spring oiling, operating lifts, pneumatic tools, etc. It is water cooled and very quiet running.

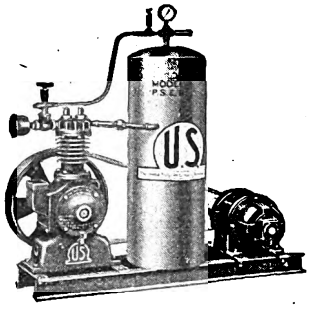
LB-5 TANDEM INSTALLATION

Model LB-5 can also be furnished in tandem either with water hopper, as shown in cut above, or can be supplied with automatic water valve which attaches to city water line and turns water on or off when machine is operating or idle. Should one air compressor be temporarily out of service—the other one, in tandem, can carry the load, and service never fails.

PAINT SPRAY UNITS



This portable, light-duty paint spray unit is the U. S. "Spray-All" Painter (Model PSE-30). It is widely used as auxiliary equipment by service stations, garages, car dealers, for touch-up work and maintenance painting. Weighs only 46 pounds. Regular price $59.50—or, furnished with a special all-metal pressure feed gun, producing results equivalent to one-half or three-quarters h.p. paint spray unit —at $69.50.



Model PSE-11 is a special low pressure paint spray unit designed to supply the garage, car dealer, or small paint shop, low priced equipment for the continuous operation of one paint spray gun.

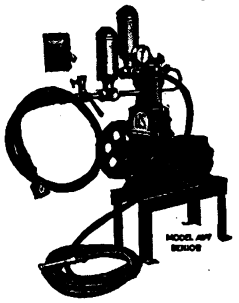
TEN SIZES AVAILABLE

U. S. makes ten sizes of spray painting equipment, including heavy-duty and light-duty portable units. Some of these are combination units, furnishing both high and low pressure air for inflating tires, spraying springs, cleaning engines, and other shop work, in addition to operating a production paint gun.

The U. S. Spring Sprayer and Engine Cleaner with adjustable nozzle tip is very popular. A valve controlled at the nozzle gives either a spray of oil or dry air.

Export Dept.: 30 Water St., New York City.
West Coast Branch: 433 West Pico St., Los Angeles, Calif.

CAR WASHERS



The Model AW-7 Car Washer shown above has been called the most quiet-running car washer ever built. It is a heavy-duty one-gun piston type washer, recommended for car dealers, garages, and service stations washing 8 to 15 cars a day. This model delivers 6½ gallons of water per minute at 325 pounds pressure, and is equipped with 1½ h.p. motor.

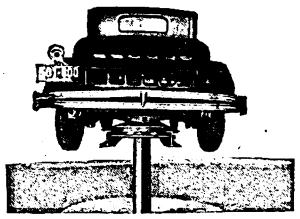
ALL ARE SELF-OILING

Like the three other washers in the U. S. line, this model is self-oiling and all moving parts are totally enclosed. It is so simple in construction that no mechanical skill is needed to operate it, and so well built that the most careless, unskilled operator cannot harm it.

U. S. CAR WASH KEROSENE OIL ATTACHMENT

Many car washers prefer a small mixture of kerosene oil with cold water in place of warm water or cleaning compounds. This unit consists of a seven gallon tank fitted with two glass gauges; one shows the amount of kerosene oil in the tank—the other one shows the number of drops of oil per minute mixing with the water supply. A valve allows operator to adjust the quantity of kerosene oil according to his own desire.

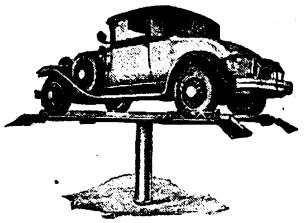
U. S. FULL-HYDRAULIC, OIL-LOCKED CAR LIFT



Free-wheel Type Model A-2

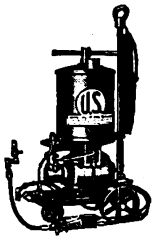
ABSOLUTE SAFETY was the first requirement in designing the new U. S. Full-hydraulic, oil-locked car lift. Positive oil locking insures against any danger of rapid dropping or settling. The extra-heavy-super-structure and cylinder wall of heavy ⅜" wrought steel tubing are added safety measures that make the U. S. Car Lift the safest on the market today.

Drive-on Type Models A-12 and A-15



In performance too, the new series A, U. S. Lift quickly demonstrates its superiority. In twenty-seven seconds it takes the heaviest car swiftly to full height, and brings it down again in twenty-five seconds.

Made in two types—Drive-on type Models A-12 and A-15, and Free-wheel type Model A-2. Super-structures are interchangeable in both types.



U. S. GREASE GUN

The U. S. Electro Hy-Press Grease Gun is unequaled for speed and power. Easy for one man to operate; its tremendous power is controlled by the combination valve and switch on the hose, giving "pressure shot" operation that conquers frozen bearings and saves grease. Due to heat generated in the compressor, the grease is kept at best working temperature in the coldest weather. This unit is portable, self-contained, electrically operated, and licensed under Alemite and Zerk patents.

BULLETINS ON REQUEST

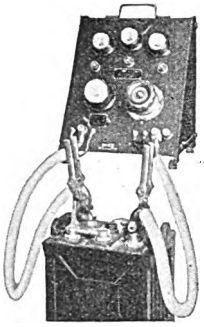
Interesting and elaborate bulletins describing each type of U. S. Equipment are available and will be sent on request.

U.S. AIR COMPRESSOR COMPANY
5316 Harvard Ave., Cleveland, Ohio

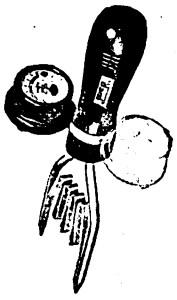
Canadian Branch: 8 Colborne St., Toronto, Canada.
Cable Address: WIDBLOCO, All Codes.

Digitized by Google

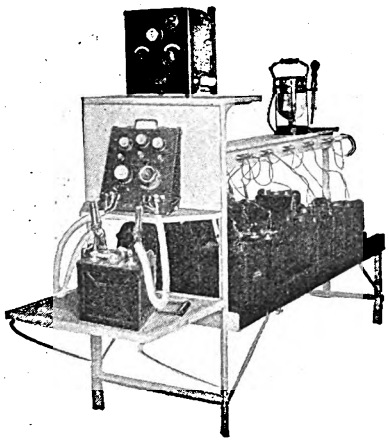
PIER SERVICE EQUIPMENT



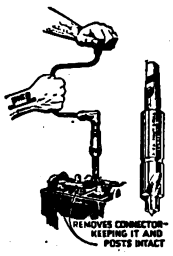
No. 95 Pier Battery Analyzer. A battery merchandiser and portable trouble shooter. Locates battery troubles quickly and easily. Shows up poor cells in a way car owners understand. Can also be used for testing cars' other electrical equipment.



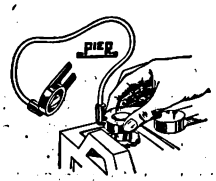
Improved Pier Battery Cell Tester. Saves time, labor and arguments. Aids in satisfying customers and convincing them when a new battery is necessary.



A Complete Battery Service Department, prices as low as $165.00. Outfit illustrated is the Model B Pier Battery Servicer Equipped with No. 103, 15 Battery Capacity Pier Charger, Battery Filler and Test Table with No. 95 Pier Battery Analyzer.



Pier Post Connector Drills. Handy for opening up batteries for inspection and repairs. Square shank for hand brace or round shank for power drill.



No. 66 Battery Charging Jumpers. A quick and satisfactory method for hooking-up batteries for series charging.

COME TO PIER FOR THE BETTER KIND OF SERVICE EQUIPMENT

- Lead Burners.
- Storage Battery Fillers for distilled water.
- Storage Battery Testing Instruments.
- Oxy-Acetylene Welding Outfits.
- Lead Molds for all battery parts.
- Steel Stamps and Marking Dies.
- Storage Battery Repair Tools.
- Welding, Cutting and Brazing Torches.
- Hydrometers.
- Battery Hold Down Clamps.
- Storage Battery Charging Terminal Connectors.
- Storage Battery Charging Clips.
- Battery Service Station Chargers (Bulb Type).
- Storage Battery Carriers.
- Brazing, Welding and Cutting Blow Pipes.
- Battery Strap Drills and Bits.

Send for FREE CATALOG

PIER EQUIPMENT MFG. CO.
440-450 North Shore Drive
BENTON HARBOR, MICHIGAN, U. S. A.

WESTINGHOUSE Rectigon Battery Charger

15-Battery Charger

Low first cost
Low upkeep cost
Low attendance cost

The secret of battery charging profits lies in these three factors that the Rectigon gives you. And these factors are combined with high efficiency and long bulb life.

With the Rectigon more of the power that comes off the line is delivered to the battery than with any other type of charging equipment. More power to the battery means lower cost for battery charging and hence more profit.

This Rectigon has nothing to wear out or depreciate, nothing to break down or to require adjustment, except the inexpensive bulb which must be replaced at long intervals only—a bulb that carries a generous life guarantee. In addition, no drop in efficiency occurs throughout the life of the bulb, and users everywhere are getting two, three, and four times the guaranteed life.

One man can install the Rectigon in a very few minutes. This Rectigon needs no specialized knowledge to keep it operating and no attendant is required to watch the batteries on charge.

LIST PRICES

Style number and list price include outfit complete with one bulb.

D-C. Amp.	D-C. Volts	A-C. Volts	Cycles	No. of Cells	Approx. Wt. Lb. Net	Ship.	Style No.	List Price
1 to 6	7½ to 45	115	50-60	3-18	45	60	598745	$ 60.00
1 to 6	7½ to 100	115	50-60	3-45	90	65	553276	100.00
1 to 6	7½ to 100	230	50-60	3-45	95	65	553277	120.00
1 to 12	7½ to 100	115	50-60	3-90	145	170	553278	180.00
1 to 12	7½ to 100	230	50-60	3-90	155	180	553279	180.00

Renewal Bulbs for Any Style Rectigon

Amp. Capacity	Net Weight Ounces	Bulb Style No.	List Price
6	5	289416	$8.00

Renewal Fuses (Two required) Any standard 15-ampere plug fuse may be used.

For further information about this Rectigon, consult your jobber.

Westinghouse

Digitized by Google

Everybody knows—
GENERAL ELECTRIC

The best-known name in the electrical world guarantees you quality and dependability in these electrical

AUTOMOTIVE PRODUCTS

Tungar Battery Charger

Reliable, efficient. In four sizes—1, 6, 15, 30 battery—to fit all needs. $18, $45, $75, $135.*

Tungar Bulbs

The standard of quality the world over.

G-E Tungar Battery Tester

Rugged as a wrench, accurate as a watch. Makes every battery test. Spots trouble in generator, starter or car wiring. Wins customer confidence for you. Helps you sell new batteries and equipment. $39.*

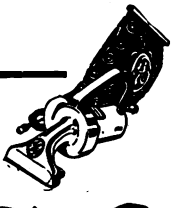
G-E Lacquered Ignition Cable

In sets to fit any car. List prices $1.50 to $4.75. Adds power, smoothness, mileage. *Only* G-E sets are equipped with Textolite Caps to protect connections.

G-E Portable Hand Lamps

Three sizes. Husky, stand the gaff. Kinkless rubber cords endure water, oil, acid and abrasion. Plugs are unbreakable. $2.70 and $4.50.*

G-E Hand Cleaner



Quickly cleans and freshens a car's interior. A new service to your customers at little cost to you. $13.50 List price.

G-E Rubber Cord Set

G-E Flex all-rubber cord with non-breakable moulded rubber plug. Doesn't kink or crack. Resists water, oil, acids and abuse. Keeps equipment working. $.90 to $2.70.

*(Prices are net East of the Rockies)

See your nearest G-E Automotive Distributor or write us.

MERCHANDISE DEPARTMENT - GENERAL ELECTRIC COMPANY - BRIDGEPORT, CONNECTICUT

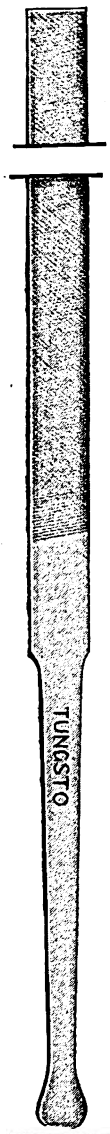
A-2710

GENERAL ELECTRIC
AUTOMOTIVE PRODUCTS

Digitized by Google

USE A TUNGSTO FILE

To insure perfect Ignition keep your contact points clean with A
TUNGSTO FILE
best for Tungsten and Platinum Points
TACONY FILE & HARDWARE CO.
PHILADELPHIA, PA., U.S.A.



FOR TUNGSTEN IGNITION POINTS

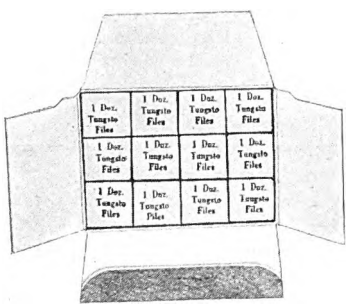
No matter how hard the metal is . . . a Tungsto File will clean it, make it smooth and free from carbon. It's a file that cuts away carbon deposits from any contact point or spark plug electrode.

Made of extra high carbon steel, cold rolled. Accurate to the thousandths of an inch and absolutely uniform in width and thickness. The flat handle of the Tungsto makes it easier to use, gets results quicker.

Hundreds of automotive jobbers display and sell these files. Use them yourself and get another profit when you sell them to thrifty car owners. Display one of the Tungsto three-colored display boards where your customers will see it. Let them try one—and they will buy one.

TACONY FILE & HARDWARE COMPANY

2438 N. Orianna St., Phila., Pa.

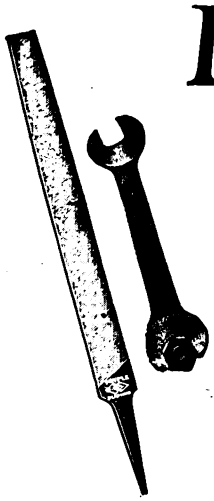


TUNGSTO FILES

TRIPLE

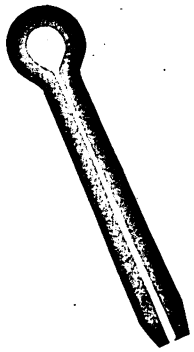
"Highest Quality"

DIAMOND LINE



The Jobber

Dealer, Service Stations, repair shops, garages and independent shops — as well as the car-owner, know the Whitaker line for its economy and absolute service.



- FORGED STEEL WRENCHES
- PIPE WRENCHES
- FILES
- COTTERS
- TWIST DRILLS
- LOCK WASHERS
- GREASE CUPS
- OILERS
- WATER BAGS
- TOOL KITS
- GREASE & OIL GUNS
- PUNCHES
- BEARING SCRAPERS

Lowest prices — a most liberal discount. Send for prices today.

Also makers of "Triple Diamond" Mower Knives, Sections, etc.

THE WHITAKER MFG. CO.

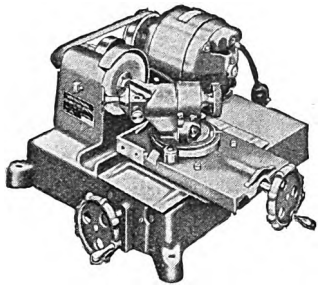
CHICAGO, ILL.

Digitized by Google

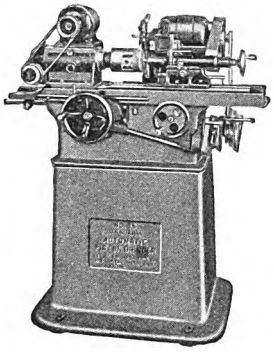
The Van Norman-Stanley-Stanley-Atha Line

Precision Machines and Quality Tools

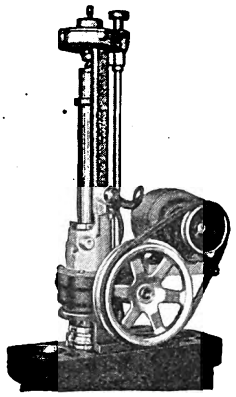
Shop Equipment



Van Norman Valve Refacers
Four models
from $90.00 to $200.00



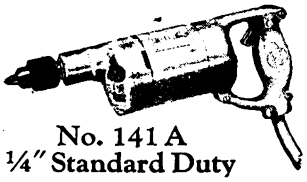
Van Norman
No. 85 Automatic
Piston Turning and
Grinding Machine



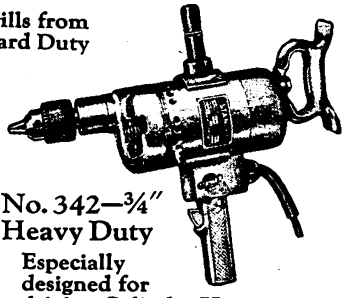
Van Norman
No. 700 Boring Bar
Combines several distinctive features which make it an outstanding machine for first class, rapid work.

Electric Tools

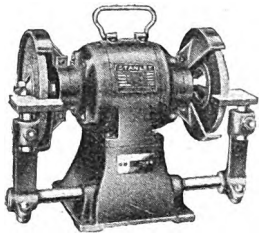
Twelve sizes of Electric Drills from
¼" Light Duty to ⅞" Standard Duty



No. 141 A
¼" Standard Duty
For fast drilling, polishing and buffing

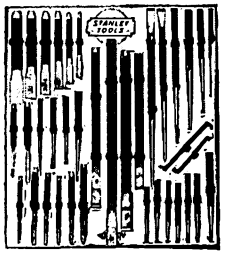


No. 342—¾"
Heavy Duty
Especially designed for driving Cylinder Hones

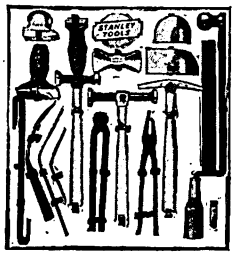


No. 556
Ball Bearing
Bench Grinder
6" wheels
Speed of 3450—practically vibrationless

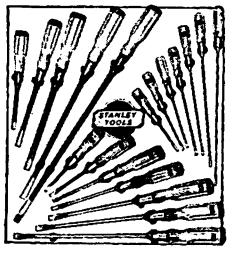
Hand Tools



Cold Chisels and Punches
Electric furnace Chrome Vanadium Steel



Body and Fender Repair Tools
Scientifically designed to do the job quicker and better



Screw Drivers
Built to meet the demands of the automotive worker

The full line includes:

VAN NORMAN

- Arbors
- Battery Repair Sets
- Boring Bars
- Carbon Cleaning Brushes
- Expansion Pilots
- Grinding Wheels
- Pilots
- Piston Grinding Machines
- Piston Rechamfering Machine
- Power Driven Reaming Machine
- Reamer Grinder
- Right Angle Drive
- Universal Pedestals
- Valve Refacers
- Valve Reseating Cutters
- Valve Seat Aligner
- Valve Service Kits
- Valve Guide Brushes
- Valve Testers
- Wire Wheel Brushes

STANLEY

- Electric Drills
- Electric Bench Grinders
- Electric Aerial Grinders
- Electric Screw Drivers
- Drill Stands and Attachments
- Bench Drill Vises
- Hole Saws

STANLEY-ATHA

- Bars
- Bearing Scrapers
- Body and Fender Repair Tools
- Brake Band Trueing Tools
- Breast Drills
- Cold Chisels
- Hammers
- Hand Drills
- Mallets
- Punches
- Rivet Busters
- Screw Drivers
- Sledges
- Tool Kits
- Vises

Send for catalogs of the complete line

The Van Norman Machine Tool Co.
Springfield, Mass.

Van Norman **STANLEY** **STANLEY-ATHA**

Digitized by Google

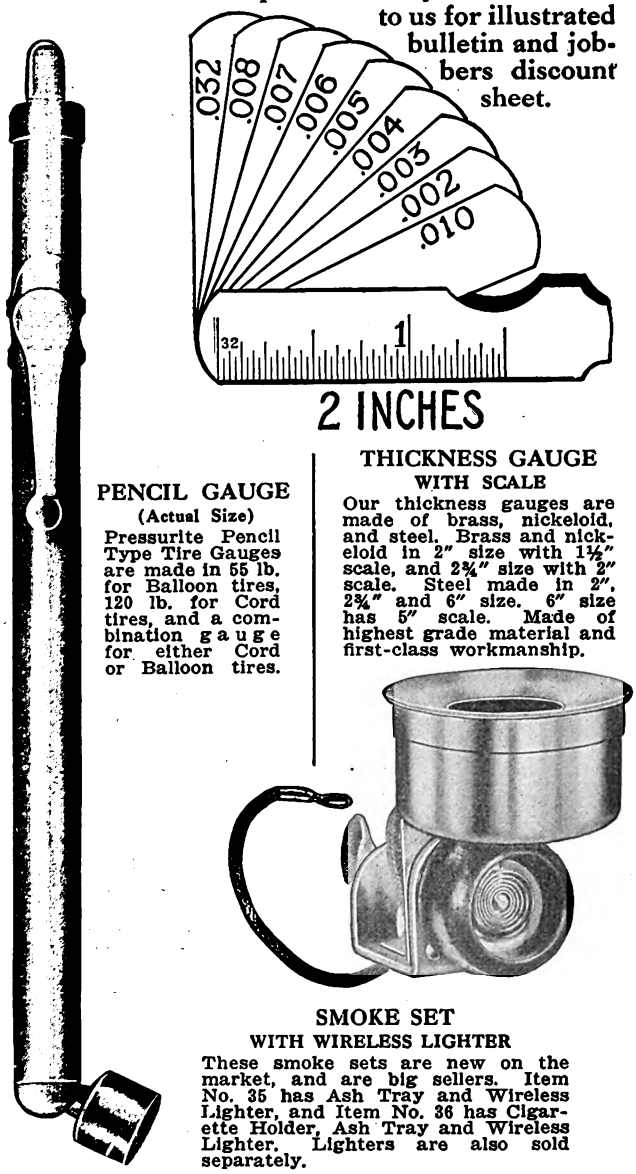
Improved Gauge Mfg. Co.

MANUFACTURERS OF

High Class Auto Accessories

A Few of our New Items shown below.

Attractive Proposition for jobbers. Write to us for illustrated bulletin and jobbers discount sheet.



PENCIL GAUGE
(Actual Size)
Pressurite Pencil Type Tire Gauges are made in 55 lb. for Balloon tires, 120 lb. for Cord tires, and a combination gauge for either Cord or Balloon tires.

THICKNESS GAUGE WITH SCALE
Our thickness gauges are made of brass, nickeloid, and steel. Brass and nickeloid in 2" size with 1½" scale, and 2¾" size with 2" scale. Steel made in 2", 2¾" and 6" size. 6" size has 5" scale. Made of highest grade material and first-class workmanship.

SMOKE SET WITH WIRELESS LIGHTER
These smoke sets are new on the market, and are big sellers. Item No. 35 has Ash Tray and Wireless Lighter, and Item No. 36 has Cigarette Holder, Ash Tray and Wireless Lighter. Lighters are also sold separately.

We are manufacturers of about forty accessories including:

- Dial Type Gauges
- Dashboard Oil Gauges
- Pressure Gauges
- Thickness Gauges
- Pencil Type Tire Gauges
- Compression Gauges
- Brass Shims and Shim Stock
- Gearshift Extensions
- Radiator Emblems
- All types of Automobile Smoke Sets for Window Sills and Dashboards
- Ivy Top Gearshift Balls

All items attractively displayed on cards for counter or window.

If your jobber cannot supply you, write to us direct.

IMPROVED GAUGE MFG. CO.
SYRACUSE, N. Y., U. S. A.

HYDROMETERS

New Type with All Metal Floats

NON-BREAKABLE

Our hydrometer floats are one-piece pure nickel, unbreakable and unaffected by battery acid or antifreeze. No glass nibs to break off. No paper scale to slip. Figures are large, easily read and engraved on the metal stem. These floats are machine made. Each one is an exact duplicate of the next within a thousandth of an inch. They are uniformly accurate.

TEMPERATURE—COMPENSATING

The flat metal walls of our floats are so adjusted in thickness and "spring" that the expansion or contraction of the confined air in the hollow interior under changes of temperature produces a corresponding change in displacement of the float and it *reads the same hot or cold.* No thermometer; no double reading; no chart. Just one easily distinguished scale for each anti-freeze all on the universal float and graduated in weather temperature figures.

BATTERY and ANTI-FREEZE

Replacement Floats

ZeroMeters, permanently attached to the car and hand models for service station use.

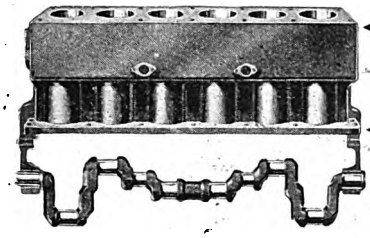
No more Breakage in Shipment
Satisfied Customers
Read at a Glance
Automatic Temperature Correction

Write for details

ZeroClear
RADIATOR CLEANER

CHRISTIE-COUSE CORPORATION
TAOS, NEW MEXICO

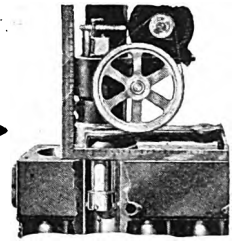
Digitized by Google

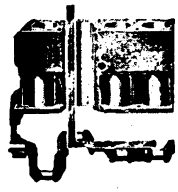


←This FACE
←This BASE
and this
CRANKSHAFT
} are ALL ≡ PARALLEL

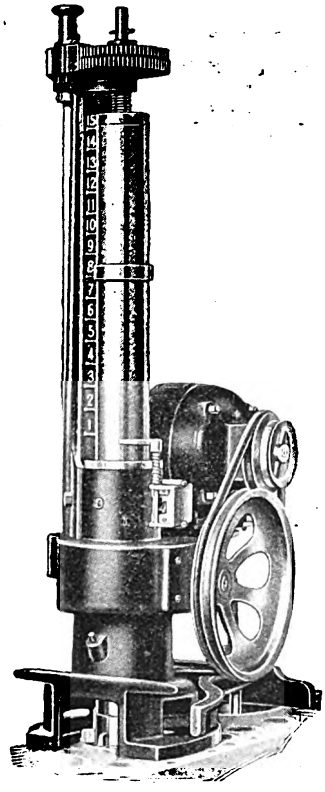
When the STORM Cylinder Renewing Machine Guides at a 90° angle • • • •

from this unworn face →



The New Bore  *can't* be other than • • •

ABSOLUTELY ACCURATE and SQUARE-WITH-CRANKSHAFT



THE important thing about the Storm Cylinder Renewing Machine is its accuracy. Almost equally important is its simplicity of operation, its speed and consequently its profit-making possibilities.

Any automotive mechanic can operate a Storm and do precision work, because the Storm Machine is practically automatic. All that is necessary in reboring a block with a Storm is to "mike" the cylinders, determine the new piston oversize, set the cutter head, center and clamp the Storm Machine. One setting of the cutter head takes care of all the cylinders in a block. With accuracy under positive mechanical control the Storm cuts a clean new bore, then automatically shuts off when each cylinder is completed. That's all there is to cylinder renewing with a Storm Machine.

And remember—because the Storm Machine is *built* with real precision accuracy—and because it *guides* from an accurate base—(the unworn face of the cylinder block)—*the new bore can't help but be accurate and square-with-crankshaft.*

If you are not familiar with the profit-making possibilities of the Storm Machine, write for our free booklet, "Stormizing Accuracy Builds Business and Profits".

STORM MFG. CO., Inc.

406 (N) Sixth Avenue South, Minneapolis, Minn.

Canadian Sales Branch, Chatham, Ontario

EXPORT DEPARTMENT: 30 Water Street, New York City. CODES USED: Bentley, A. B. C. 5th Edition, Western Union CABLE ADDRESS: WIDBLOCO, New York

CARE WILL SAVE YOUR CAR

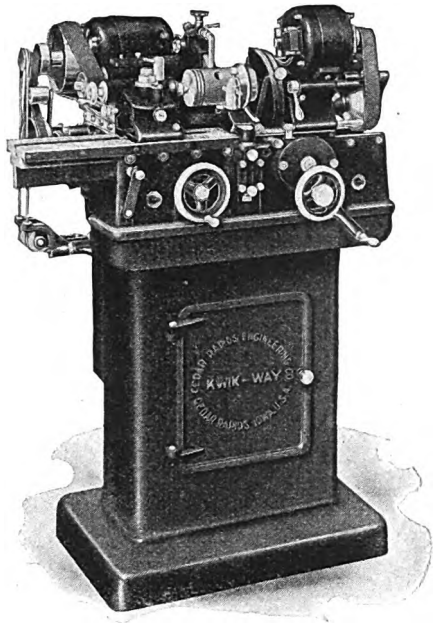
STORMIZING

The ACCURATE Method of Cylinder Renewing

Digitized by Google

KWIK-WAY

MOTOR SERVICE SHOP EQUIPMENT



The Famous Kwik-Way Line Includes:

THE KWIK-WAY GENERAL PURPOSE TURNING AND GRINDING MACHINE

THE KWIK-WAY MULTI PURPOSE MACHINE

THE KWIK-WAY VALVE FACING MACHINE

THE KWIK-WAY MANY PURPOSE BENCH TOOL

THE NEW KWIK-WAY RESEATING TOOLS

THE NEW KWIK-WAY ECCENTRIMETER

THE KWIK-WAY CHAMFERING JIG

THE KWIK-WAY AIRPLANE PILOTS AND RESEATING CUTTERS

◆

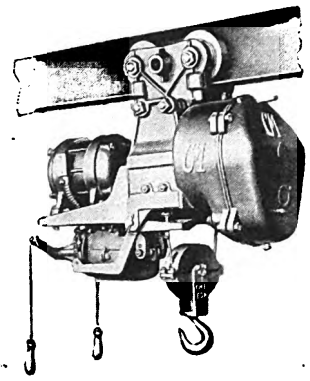
Write today or wire at our expense for Free Demonstration in your own shop, by our factory representative, without cost or obligation to you.

BOOKLET FREE

Illustrated Booklet, Circular or Full Information on any of the above equipment sent free upon request. In writing mention machine or tool in which you are interested. (Mention also Chilton Automotive Multi-Guide.)

Cedar Rapids Engineering Company
Cedar Rapids, Iowa

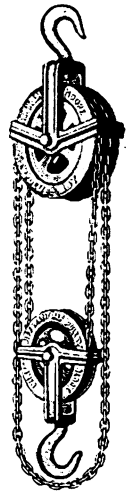
The CM Electric Hoist



Particularly adapted for service stations and large garages for handling materials in parts department and storage warehouse. Supplied complete with overhead trackage in capacities of 500 lbs. to 15,000 lbs.

The BLUE BOY *Differential Hoist*

Indispensable to the automotive repairman. The most modern design, the very best materials and accurate construction assures safety of load and workmen. Capacities from ¼ ton to 3 ton.



The Famous
INSWELL LINK

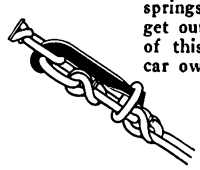
Special analysis steel, electrically welded with extra reinforcement forced inside the weld. The safest and strongest chain made. Used on all hoists.

DREADNAUGHT TIRE CHAINS

For Cars, Trucks *and* Buses

Electric Welded Cross Links

Every link of Dreadnaught Cross Chains is electric-welded and case-hardened to insure it against hard usage giving chains with extra mileage.



BLUE BOY FASTENER

Held securely by a link that is easily slipped on or off. No springs, no clamps, nothing to get out of order. The simplicity of this fastener wins and holds car owners.

COLUMBUS-McKINNON CHAIN CORP.
General Sales Office: TONAWANDA, N. Y.
Plants: Tonawanda, N. Y. Columbus, O.
In Canada: McKinnon-Columbus Chain, Ltd.
St. Catharines, Ont.

Digitized by Google

CYLINDER HONES

The New Model COUNCIL SPIRAL CYLINDER HONE has a capacity of 2.11/16 to 5 inch cylinder bores, small enough for the smallest bores — large enough for trucks and tractors.

SAFETY ■■■

It takes the grit to the top of the cylinder and does a clean smooth job. Driven by any electric drill ⅜ or larger.

ACCURACY ■■■

It has provisions for trueing up the stones, taking all guesswork out of the honing operation—resulting in accuracy.

REAL ECONOMY ■■■

One set of stones will hone out about 200 cylinder bores, and cost only $2.50 per set —a real chance to economize.

SPEED ■■■

No time is lost by stopping and adjusting the hone—it adjusts itself and expands automatically resulting in both speed and accuracy.

DURABILITY ■■■

Due to its sturdy construction the well known accuracy of the COUNCIL SPIRAL HONE is guaranteed to remain unimpaired after you have honed out two thousand bores as well as the day you bought it.

ANOTHER NEW TOOL

COUNCIL SAFETY PISTON HOLDER

used like a piston vise—but fits the Piston all around—can not distort the frailest piston, also used as assembly jig, Piston resizer and Piston gauge—saves time and trouble.

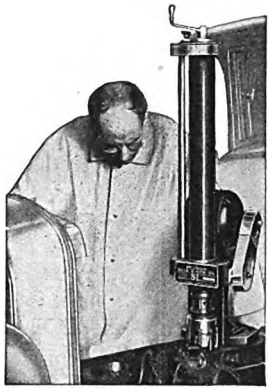
For illustrated literature write

COUNCIL ENGINEERING CO., INC.
MOLINE, ILL.

Cable address "Council" Moline, U. S. A.

LEADERSHIP—SPEED PRECISION—PROFITS

ALL ARE YOURS WHEN USING THE ST. LOUIS CYLINDER RECONDITIONING EQUIPMENT



Bores and Finish Reams Cylinders In or Out of the Chassis in One Operation.

PORTABLE — AUTOMATIC

FULLY ENCLOSED PILOT

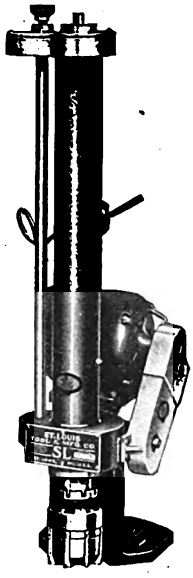
FULLY ENCLOSED GEARS

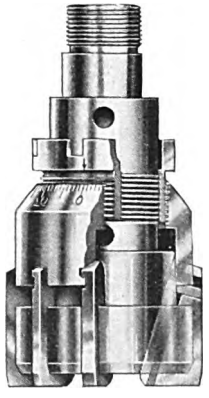
POSITIVE CHAIN DRIVE

AUTOMATIC STOP

AUTOMATIC RETURN OF HEAD FROM CYLINDER WITH MOTOR POWER.

POSITIVE CENTERING





3 Sizes — for Automobiles — Trucks — Tractors — Busses — Airplanes — Marine Engines, etc.

THE FAMOUS ST. LOUIS BORING AND REAMING —HEAD—

Accuracy to the thousandths by simply adjusting the collar leaving a perfect hole absolutely true and uniform with a velvet finish eliminating use of abrasives.

Write for Full Information and Booklet

ST. LOUIS TOOL AND MFG. CO.
3300 N. Broadway
ST. LOUIS, MO., U. S. A.

Digitized by Google

THE SILVER KING HYDRAULIC

MORE JACK FOR YOUR "JACK"

Strength—A one-piece *certified malleable* body insures maximum strength with minimum weight.

Power—Sixty-five pounds pressure at the end of the handle will pump up a rated capacity load the full height of the jack.

Speed—Full lift can be reached in less than one minute.

Simplicity—Any mechanic can service the Silver King. Fully illustrated service manual with suggested flat rates and list prices on all parts is supplied free to dealers and fleet operators.

Finish—A beautiful silver lacquer; clean, smooth, durable and attractive to the eye.

Factory Test—Every Silver King is carefully inspected and thoroughly tested at one and one-half times its rated capacity before shipment.

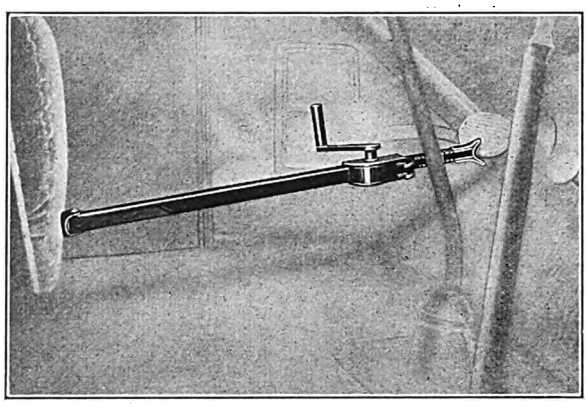
Guarantee—Silver King Jacks are guaranteed to be free from defects of workmanship and materials and to operate with ease under all weather conditions and temperatures ranging from that of the hottest climate to 25° below zero.

Silver King Hydraulic Jacks are stronger, faster and easier to operate, more convenient and less expensive to service, and due to the simplicity of their design, are unusually low priced.

THE SILVER KING HYDRAULIC JACK COMPANY

5604 Cedar Avenue Cleveland, Ohio

A MAINTENANCE TOOL THAT CUTS LABOR COSTS TO A MINIMUM!



THE MUTHER PEDAL DEPRESSOR

for

Adjusting Service Brakes

Relining Brakes

Checking and Correcting Steering Geometry

Overhauling Clutch

Car Washing

PRICE $3.75 (Canada $3.95)

At Your Jobber or Direct

Pacific Coast Warehouse
50 Hawthorne St.,
San Francisco, Calif.

Canadian Warehouse
78 William St.,
Chatham, Ont.

MUTHER MFG. CO.

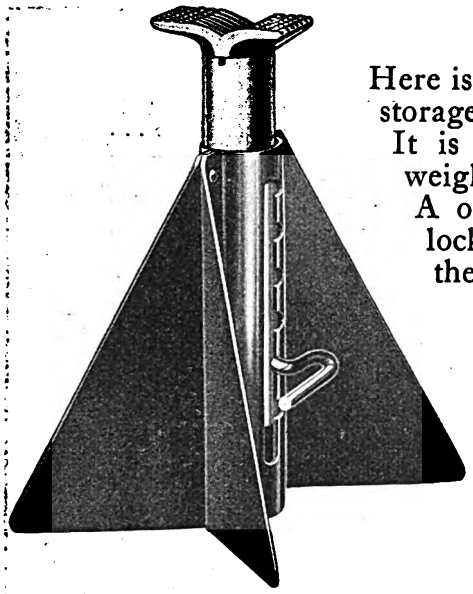
44 Binford Street

Boston, Mass.

Digitized by Google

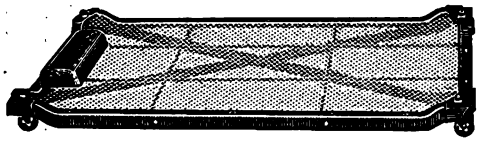
Hevy-Duty
Storage Jack

BTC
STANDARD FOR HALF-A-CENTURY



Here is an inexpensive heavy-duty adjustable storage jack that every garage man will want. It is strongly built, exceptionally light in weight and safe.

A one-quarter turn of the handle binds the lock safely and securely in the tilted notches—there is no danger from dropping loads with a Hevy-Duty. Six one and one-half inch positions allow ample adjustment. Height opened 23 inches, closed 14 inches.

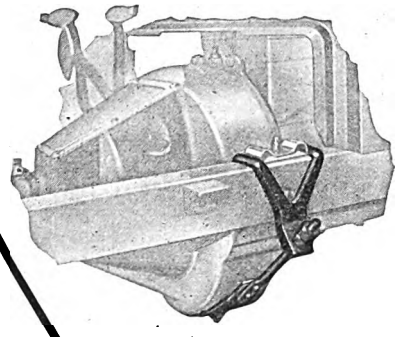


Pioneer Garage Creeper

A drop frame with a 1⅜ inch clearance allows free motion under low cars. Solid channel frame of heavy pressed steel, reenforced by cross bracing placed edgewise and diagonally stayed supports interlocking mesh surface. Roller bearing casters are protected by stamped retainer of heavy steel. A comfortable headrest of long wearing Duratex completes this efficient creeper. Length 39½ inches, width 18½ inches.

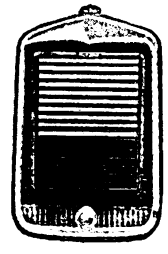
Pioneer Replacement Window
For Ford Cars

Simple and durable in construction and quickly and easily installed. Furnished with plain glass only. Black enamel finish. Fits opening in back of all Ford cars model T since 1925. Sturdily built to give satisfaction.



Pioneer Engine Support
For Model A and Model T Fords

Once installed the user would never drive without one. Tightens Ford Chassis—eliminates vibration and increases power—prevents broken crankcase arms—sets crankcase arms already broken either one or both—keeps nuts and bolts from loosening. Acts like an iron strap under the motor. Easily installed.



Moto-Gard
Radiator Front

Moto-Gard is a positive control for motor temperature. Solidly built with no delicate mechanism and controlled from the dash by a visible control marked to show the position of the leaves. A turn of the thumb adjusts. Triple service feature includes the ability of closing the lower leaves to protect the coolest part and allowing the top ones to remain open.

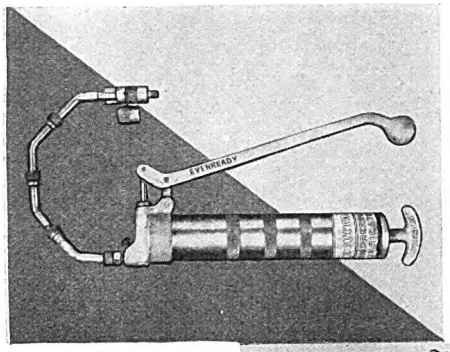
The BTC line also includes trimming hardware such as bow sockets, slat irons, fasteners, metal finishers, lethermet nails, etc.

THE BREWER-TITCHENER CORPORATION
Cortland, New York

Digitized by Google

The Everready Line

High pressure lubricators to meet every shop requirement from the smallest to the largest. Economical to buy—economical to operate. Manufactured under patents of the Alemite Manufacturing Co. as well as Rogers Patents and Patents Pending.



Model JJ

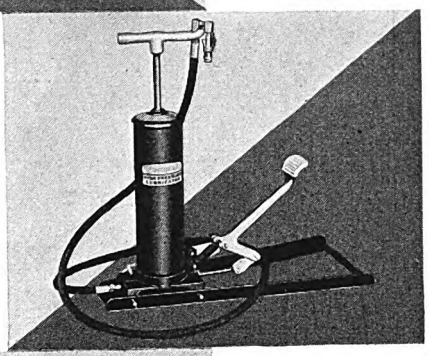
The Model JJ gun is the basis from which the entire Everready Line of High Pressure Lubricators has been developed. Holds 1¼ lb. of grease and delivers 10,000 lbs. pressure at the nozzle. Special air vent, an exclusive Everready feature, provides absolute elimination of air pockets.

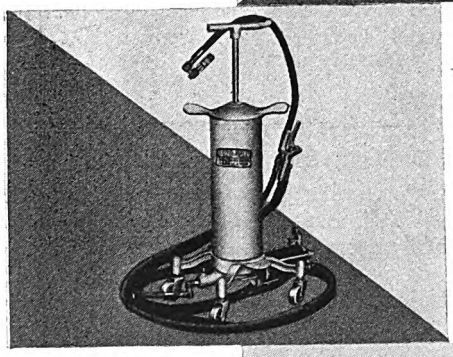
Price $14.95

Model C-30

Foot operated. The model C-30 is designed for pit and rack work, especially on fittings that require the use of two hands. For heavy greases such as Marfak, Spicer, etc., a special unit, the F-10, has been developed. Air pressure is used instead of spring pressure to force the grease to the base piston chamber, construction otherwise being same as the C-30.

Price C-30 $53.75





Model GB-1

The Everready Air-o-matic having a capacity of approximately 20 lbs. is extremely portable, being mounted on four large casters and moves readily on gravel, cinders or cement.

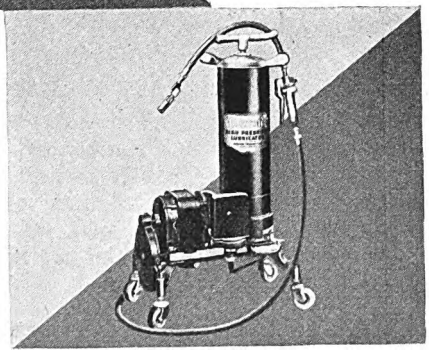
GB-2—Designed for use with Marfak, Spicer and heavy greases.

Price GB-1 $105.00

Model FH-1

The simplest, most dependable electric portable unit. As soon as the control handle is thrown, 4000 lbs. pressure is instantaneously produced with the greatest ease. When the control lever is released, pressure control switch automatically cuts off motor. The grease control action of the switch of the FH-1 is similar to the automatic air pressure control as found on many well-known air compressors. FH-2—Designed for use with Marfak, Spicer and heavy greases.

Price FH-1 $135.00



ROGERS PRODUCTS CO., INC.
198 PACIFIC AVE., JERSEY CITY, N. J.

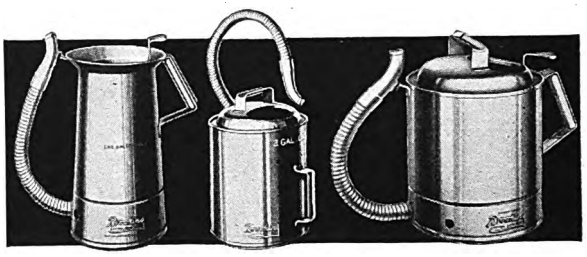
Use equipment BUILT FOR THE JOB

Each piece of Brookins equipment is especially designed to do a certain job . . . and to do that job in the easiest, cleanest, quickest way possible.

Ask your jobber salesman about Brookins equipment . . . or write for full information.

The Brookins Manufacturing Co.
770 Hawthorne St. Dayton, Ohio

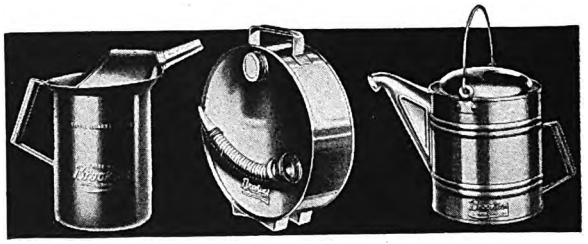
Brookins SERVICE STATION EQUIPMENT



"All-In One"
1, 2 and 4 qt. type. Made of heavy, copper-plated metal. Has flexible metal hose and thumb-valve control.

Crankcase Filler
Has the famous Brookins flexible spout. Comes in 6, 8 and 10 qt. sizes. Just the thing for big cars and trucks.

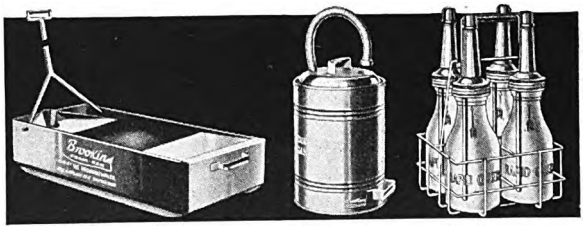
"All-In One"
6, 7, 8 and 10 qt. type. Has thumb-valve control and flexible metal hose. Heavily copper plated. Convenient . . . speedy . . . accurate.



The "Seamless"
Body made from one piece of metal. No seams to leak. Rigid spout, flexible spout or pouring top.

Gas Canteen
Sell to motorists. Holds one gallon. Stored under back seat. Has flexible hose and funnel tip for priming vacuum tanks.

The Water Can
Is strongly made of heavy terne plate. 2 and 3 gal. sizes. Hook on spout prevents can from slipping.



Portable Drain Tank
Slides under any car. Holds about 4 gal. When full can be dragged or carried upright. Easy to empty.

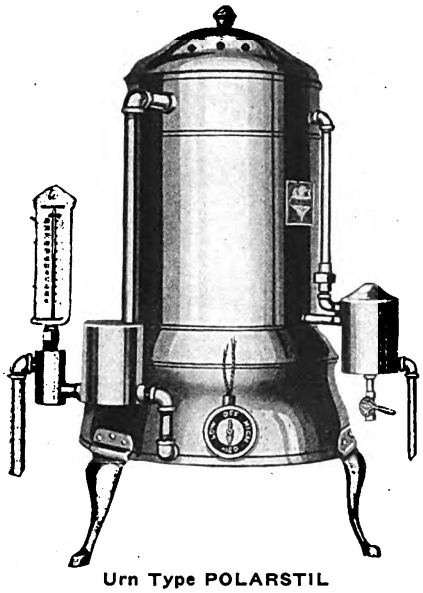
Brookins Gas Can
Emergency can for stalled motorists. Gas can't splash over. Has flexible metal hose. 2 and 5 gal. sizes.

Rapid Oilers
Built to stand rough treatment. Metal spout heavily reinforced. Exclusive patented all-enclosing vent tube. Improved shape.

"HONEST EQUIPMENT FOR HONEST SERVICE"

Digitized by Google

POLARSTIL PURE DISTILLED WATER FOR STORAGE BATTERIES



Urn Type POLARSTIL

Economical—Efficient

Water from river, lake, sea, well or swamp, full of solids, gases and other impurities, when distilled in a POLARSTIL will be absolutely pure.

POLARSTILS are sturdy in construction. Made of copper. All parts contacting distilled water heavily tinned. Easy access to all parts for cleaning.

Economical in operation. Prolongs life of batteries.

Urn types in 1 to 10 gallons per hour capacity, operated by steam, gas, oil or electricity.

Industrial types in sizes from 10 to 3000 gallons per hour.

Shipped ready for immediate installations.

Catalog and prices on request.

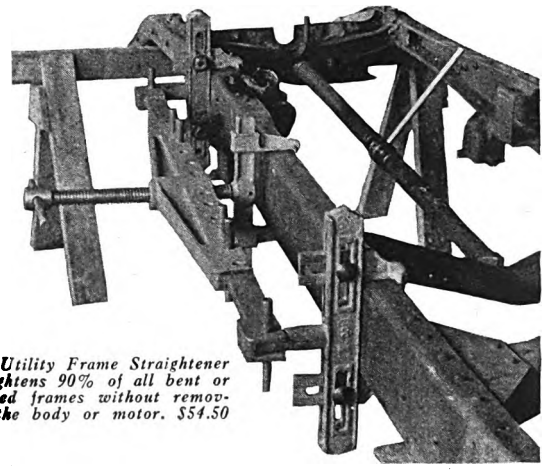
POLARSTIL

ATLAS COPPER & BRASS MFG. CO.

2724-42 HIGH STREET
CHICAGO

A One-Man Tool That Pays *for Itself on the First Job!*

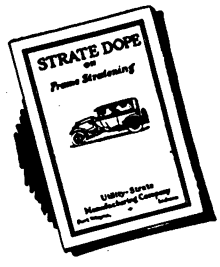
The Utility Frame Straightener will straighten without heat any bent frame that is not twisted. It will do quicker and better work, and at a better profit for the job than any of the older methods. It will straighten any size or design of passenger car, bus, or truck frame and save you 75% in time and labor.



The Utility Frame Straightener straightens 90% of all bent or twisted frames without removing the body or motor. $54.50 net.

Consider carefully these facts on The Utility Frame Straightener and equip your shop to make real money on straightening jobs:

1. Utility is the pioneer and originator of the present type of frame stratener.
2. Designed by a practical and financially successful garage-man.
3. It has been on the market for four years and has been tried and proven successful by thousands of users. Used by 90% of factory service stations in Chicago.
4. Present type even more adaptable and satisfactory than the old type.
5. It is made of special alloy steel castings.
6. Adjustable teeth are machined, not cast.
7. The complete tool (without extensions) weighs only 90 lbs., truly a One-Man Tool. Special alloy steels permit this light weight without sacrificing sturdiness.
8. $54.50 complete with pipe and turning bar.
9. Extensions which permit the main beam to be extended from 3 feet to 5 feet are $11.00 per set.



Send for this Book!

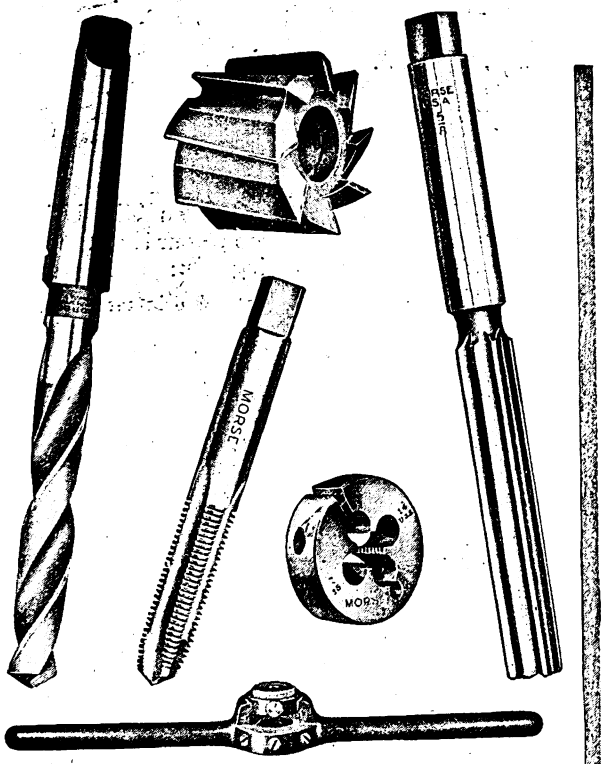
Today it isn't necessary to replace bent frames—Straighten them with the Utility Frame Straightener. Our book "Strate Dope on Frame Stratening" gives you all the information you need to make a real profit on this service. Write or wire now.

UTILITY-STRATE *Manufacturing Co.,* Fort Wayne, Ind.

Digitized by Google

Drills
Reamers
Cutters
Taps and Dies
Screw Plates

the name
MORSE
is a guarantee
of real value
as every mechanic knows



Morse tools have been known since 1864 for their reliable high quality. You can do your best work with these finely made, fast working tools. In automotive repair work as well as manufacturing they will save money every time.

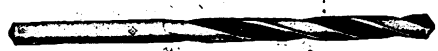
MORSE
TWIST DRILL & MACHINE COMPANY
NEW BEDFORD, MASS., U.S.A.

Tools for Tuning Up

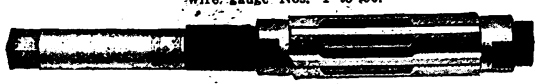
CLE-FORGE HIGH SPEED DRILLS
TRADE MARK REG. U.S. PAT. OFF.

Famous Cleveland High Speed, Taper Shank Drill, List No. 910; also Straight Shank, List No. 950, made in all standard sizes by sixty-fourths of an inch.

Straight Shank Short Set Drills, Carbon Steel, List No. 108, Cle-Forge High Speed Steel List No. 917. Made in sizes 1-32" to ½" by thirty-seconds.



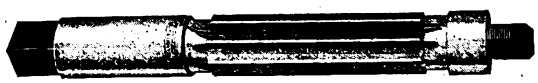
Straight Shank Wire Gauge Drills, Carbon Steel, List No. 108A, Cle-Forge High Speed Steel List No. 918. In sizes wire gauge Nos. 1 to 60.



Quick-Set
Adjustable Reamer
TRADE MARK REG. U.S. PAT. OFF.

Reamer No. 148. The most accurate reamer of its type made. 16 sizes with adjusting range from ⅜" to 2 7-32"; also five handy sets.

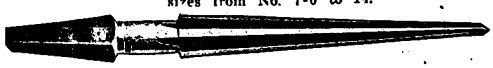
Hand Reamer, List No. 128-A. An extremely accurate solid reamer, made in sizes ⅛" to 2".



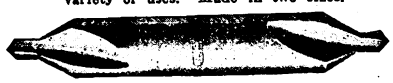
"Common Sense" Expansion Hand Reamer, List No. 129. Made in sizes ¼" to 2".

Spiral Fluted Expansion Hand Reamer, List No. 126. Made in all standard sizes for garage use. Also packed 12 reamers in handy set No. 36.

Standard Spiral Fluted Taper Pin Reamer, List No. 139. Also made with Straight Flute. List No. 137. Standard sizes from No. 7-0 to 14.



Repairman's Taper Reamer, List No. 142. Ideal for wide variety of uses. Made in two sizes.



Combined Drill and Countersink, Carbon Steel, List No. 98; High Speed Steel, List No. 998. Made in standard sizes from A-1 to F-2; also available in sets.

EZY-OUT
TRADE MARK REG. U.S. PAT. OFF.
SCREW EXTRACTORS

No repair shop can afford to be without a set of Ezy-Out Screw Extractors. Ezy-Out removes broken cap or set screws quickly on their own threads without damaging hole. No retapping required. Made in 13 sizes and available in six handy set combinations.
Our Automotive Tool Booklet "Tools for Tuning Up" sent upon request.

The CLEVELAND TWIST DRILL COMPANY
CLEVELAND
NEW YORK-CHICAGO-LONDON
SAN FRANCISCO
TRADE MARK REG. U. S. PAT. OFF. AND FOREIGN COUNTRIES

Digitized by Google

SMOOTH-KUT EXPANSION REAMERS

As the originators of the first Spiral Expansion reamer ever made we should be able to make these reamers to perfection —particularly when that method is patented and owned by us.

Smooth Kut full spiral Expansion Reamers eliminate all chatter—increase cutting efficiency—produce clean, accurate holes.

Through the material and expert workmanship used in making them, they stand-up much longer. A pioneer in the field Smooth Kut Reamers are still the only full-spiral expansion reamers on the market—at a fair price.

These full spiral flutes will not gouge into oil grooves, holes or keyways in other bearings. The helical (full spiral) flutes span the gaps.

Assure positive alignment. Cut clean, smooth holes. Permit free elimination of own shearings and do not choke up and break.

SMOOTH-KUT PISTON PIN REAMERS

Set No. 8 - 8 sizes	$ 75.15
Set No. 10-10 sizes	99.70
Set No. 12-12 sizes	122.50
Set No. 14-14 sizes	147.05

Style A Smooth-Kut Expansion Reamer

Style B Smooth-Kut Expansion Reamer

Rose End Pilot Expansion Reamer

Floating Pilot Expansion Reamer

King Bolt Expansion Reamer

Valve Guide Reamer

GET OUR CATALOG

MILLERSBURG REAMER *and* TOOL COMPANY

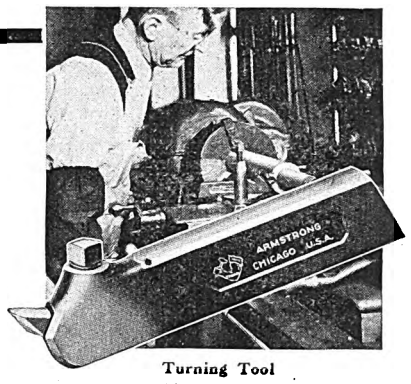
Millersburg Penna.

ARMSTRONG

TRADE MARK REG. IN U.S. PAT. OFFICE

TOOL HOLDERS

ARMSTRONG TOOL HOLDERS are used in over 96% of the machine shops and tool rooms. They *Save All Forging, 70% Grinding and 90% High Speed Steel.* These are permanent tools, for every operation on lathes, planers, slotters and shapers, that use bits that any mechanic can quickly grind from stock shapes of high speed steel. Each effectively equals a dozen forged tools. With four or five ARMSTRONG TOOL HOLDERS and a few bits, you are "tooled up" for practically all of your lathe work. The new ARMSTRONG *Tungsten-Carbide* Tool Holders make it possible to easily machine hardened steel parts without annealing.

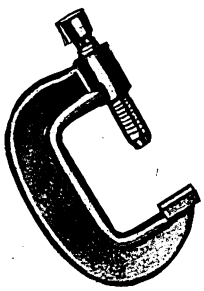


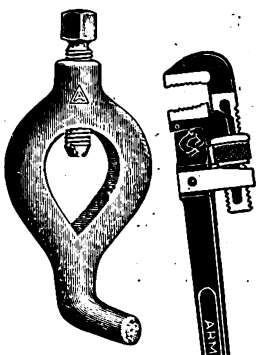
Turning Tool

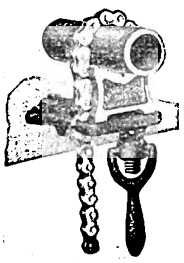
Boring Tool

Knurling Tool

Straight Shank Cut-Off Tool







ARMSTRONG

TRADE MARK REG. IN U.S. PAT. OFFICE

Drop Forged Tools

"C" CLAMPS All practical sizes and styles. Drop forged from special steel with alloy steel screws, hardened at points.

LATHE DOGS Exceptionally strong. Drop forged. Alloy steel screws. Hubs large enough to permit retapping.

RATCHET DRILLS The most extensive line made. All steel with improved mechanical action. Give long satisfactory service.

ARMSTRONG BROS.

Better PIPE TOOLS

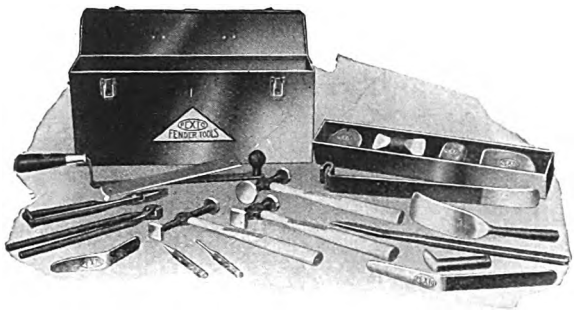
Each an improved tool designed after exhaustive tests of all other types and makes. These are cleaner-cut, stronger tools of finer materials. Make work easier, last longer. The most complete line of pipe tools made.

Makers of the famous
BLACKHAWK-ARMSTRONG
Chrome-Vanadium Wrenches

Write today for Catalog B-27; shows, describes and gives prices of all ARMSTRONG Tool Holders and Tools. 167 pages of fine tools. Sent free upon request.

ARMSTRONG BROS. TOOL CO.
"The Tool Holder People"
304 N. Francisco Ave., CHICAGO, U. S. A.

Digitized by Google



Assortment No. 17

Fender and Body Dent Removing Tools

Pexto Fender and Body Dent Removing tools have won an eminent place for themselves in the industry. The quality that is built into the tools is appreciated, while repair men realize that in design they are perfection. Each tool is so constructed—after actual tests in use—as to give it maximum efficiency and make it easy to use.

Pexto tools may be purchased separately or in sets. Assortments, which comprise an ideal starting set, priced at less than $12.00—larger assortments such as No. 17, illustrated above, list at $25.00.

It doesn't cost much for a shop to be ideally equipped to take care of all dent removing work.

—AND OTHER FINE TOOLS

Pexto pliers, screw drivers, braces, squares, hammers, wrenches, etc., have long been recognized as the standard. Honest tools that give a hundred cents value for every dollar expended.

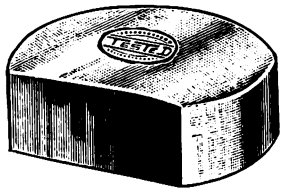
Made by New England craftsmen for more than 110 years.

PEXTO

THE PECK, STOW & WILCOX CO.
Southington, Conn., U. S. A.

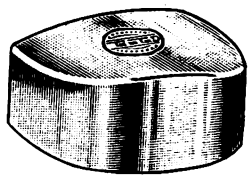
EVANSVILLE
AUTO BODY TOOLS

DING DOLLY



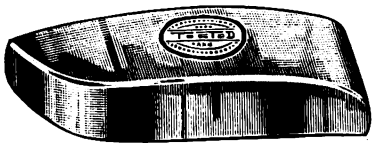
Cat. No. 1003
List Price, ea.....$1.75

HEEL DOLLY



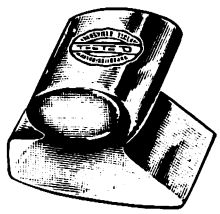
Cat. No. 1000
List Price, ea.....$1.50

TOE DOLLY



Cat. No. 1001
List Price, ea.....$1.50

GENERAL PURPOSE DOLLY

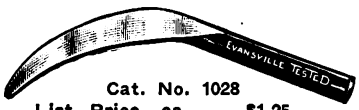


Cat. No. 1005
List Price, ea.....$3.00

NARROW SPOON

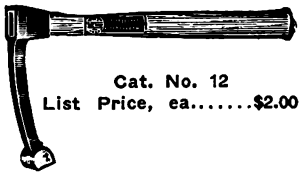
Crown Pattern
Cat. No. 1027
List Price, ea.....$.75

WIDE SPOON



Cat. No. 1028
List Price, ea. $1.25

FENDER BUMPING HAMMER



Cat. No. 12
List Price, ea.....$2.00

BUMPING HAMMERS

Cat.	Wt.	List Price, ea.
6	10	$1.25
7	13	$1.00

DOUBLE END DOOR & SIDE APRON SPOON

Cat. No. 1020
List Price, ea.....$5.00

DINGING HAMMERS

Round Face Pat.
Cat. No. 2
List Price, ea.....$2.00

DOOR & SIDE PANEL SPOON

Cat. No. 1023
List Price, ea.....$5.50

FILE HOLDER & FILE

Cat. No. 1015
List Price, ea.....$1.00

EVANSVILLE TESTED TOOLS

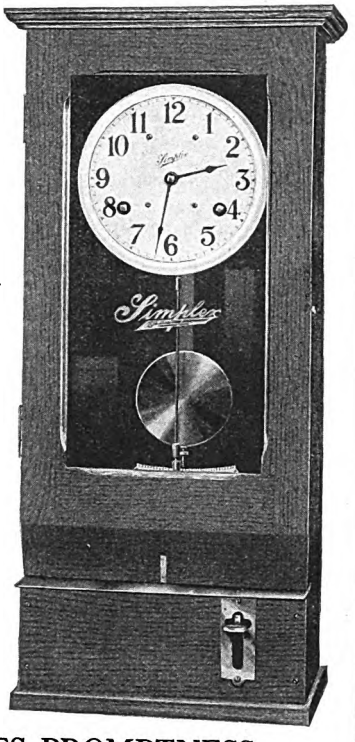
DOLLY BLOCKS	CHISELS
BODY SPOONS	PUNCHES
HAMMERS	GLASS REMOVERS
FLEXIBLE FILES, CURVED AND STRAIGHT	SCRATCH AWLS
FENDER FLANGE TOOLS	METAL SNIPS
FILE HOLDERS, CURVED AND STRAIGHT	SCREW DRIVERS

All Prices are "List"

EVANSVILLE TOOL WORKS, Inc.
Evansville, Indiana

Digitized by Google

Simplex TIME SYSTEMS Simplify



The Model T Universal Garage Recorder is a tamper-proof, automatic job and payroll time recorder.

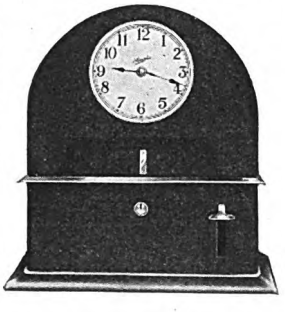
It gives you an accurate printed record of the time that each employee comes and goes from work. Records the time your mechanic starts and finishes each job. Shows how fast he works, how much time he loses, and whether or not he makes you a profit.

ENCOURAGES PROMPTNESS
SPEEDS UP SHOP WORK
BOOSTS YOUR PROFITS
ELIMINATES DISPUTES

It fits any cost system recommended by automobile manufacturers for service.

The Model T Recorder is also furnished in a small steel case with TELECHRON MOVEMENT

This is a springless electric movement which requires no winding, regulating, oiling or cleaning. It simply plugs into an electric outlet and assures Observatory Time with an accuracy and dependability which ordinary clocks cannot even approach. It costs only a few cents a month to operate and is the last word in accurate time keeping.



Exchange your old recorder for a new Simplex Telechron. Liberal allowances and terms.

SIMPLEX TIME RECORDER CO.
50 TIME AVE. GARDNER, MASS.

PORTER HKP

PORTABLE HAND OPERATED

CUTTING TOOLS

Along the sides of this advertisement we show the cutting jaws of several Porter Tools and below, close up views of these tools in use — Shear Cutter on wire rope, Angular Cutter on tie wire, Nut Splitter ready to remove nut, End and Angular Bolt Clippers and the Chain Cutter. These represent popular models in a line of 60 powerful portable hand operated cutting tools—all of them built on the lever and toggle joint principle which multiplies applied power about 70 times. The largest Bolt Clipper cuts annealed bolts in the thread up to 3-4 inch. The Shear Cutter has a maximum capacity of 5-8 inch soft wire rope or 1 1-2 x 9-32 inch soft bars.
Porter Tools are quick — they save time and labor in production, maintenance, dismantling and repairs. They are used in practically every industry.

Write for descriptive literature — ask your jobber.

H.K.PORTER INC.
33 Ashland Street
EVERETT, MASS.

Digitized by Google

the eye for accuracy

speeds up service — sales

Ames Dial Micrometer tools — specially designed for motor car reconditioning—speed up repairs and help sell more work and replacement parts. Every mechanic should be fully equipped.

AMES Cylinder Gauge—"Dial Mike" Micrometer Gauge with Magnetic Mount

Ask your jobber or send for complete information about these time saving and money making tools.

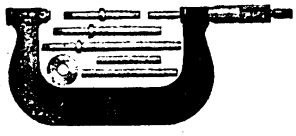
B. C. AMES CO., Waltham, Mass.

Exclusive Sales Representatives

Automotive Maintenance Machinery Co.

816 W. Washington Blvd. Chicago, Ill.

Brown & Sharpe Tools for the Service Shop — Ask for them by number



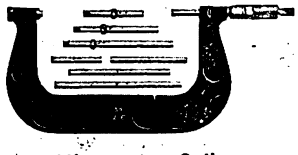
Micrometer Caliper No. 54

Range 0 to 4" by thousandths of an inch.

A micrometer whose range makes it particularly useful in the service shop for measuring pistons, crankshafts, etc.

Thickness Gauge No. 648

Eight tempered tapered blades 4½" long. Thicknesses—.002", .003", .004", .006", .008", .010", .012", and .015". No. 649 is similar to No. 648 but has 6" blades.



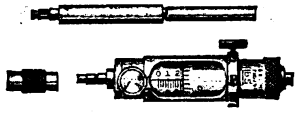
Micrometer Caliper No. 55

Range 2" to 6" by thousandths of an inch.

Especially useful for piston work.

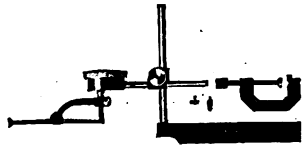
Twist Drill and Machine Screw Tap Gauge No. 707

Tells the correct drill to use with any common size of machine screw tap.



Inside Micrometer No. 264

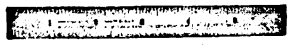
Range 2" to 8" by thousandths of an inch. Has six measuring rods. One of the handiest tools for making inside measurements.



Universal Dial Indicator Set No. 740

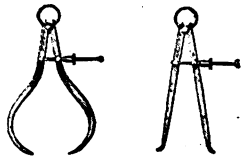
Spindle movement 2/10" by thousandths of an inch.

Measures inaccuracies in cylindrical and plane surfaces.



Stainless Steel Rule No. 350

Two lengths, 6" and 12". Rust-proof—will not stain or discolor.



Outside and Inside Spring Calipers Nos. 811-812

Each made in six sizes—2½", 3", 4", 5", 6", and 8".

B·S Ask your jobber for a copy of our Small Tool Catalog No. 31 or send to us for one. Brown & Sharpe Mfg. Co., Providence, R. I.

Brown & Sharpe Tools

"World's Standard of Accuracy"

Digitized by Google

TRUTH TOOLS

Whenever you struggle with some job around a car that could be quickly done with the correct tool you are losing both time and unnecessary money. Truth can help you on such work for they have been for many years the world's standard special repair tool builders . . . .

REMEMBER THE BEST COST NO MORE, PLAY SAFE AND BUY TRUTH!

Listed below are a few of the tools we manufacture and exclusively distribute.

CHISELS, PUNCHES
WHEEL PULLERS
AXLE PULLERS
DRIVESHAFT PULLERS
AXLE STUB REMOVERS
AABS PISTON PIN BUSHING REAMERS
AABS SPINDLE BUSHING REAMERS
COTTER KEY PLIERS
TRUTH 12 POINT SOCKETS
TRUTH 12 POINT WRENCHES
ENGINEERS' WRENCHES
TAPPET WRENCHES
RING GROOVE CLEANERS
PISTON RING EXTRACTORS
BROKEN AXLE STUB REMOVERS
GEAR PULLERS
PIPE SWAGES
VALVE SPRING LIFTERS
VALVE SPRING COMPRESSORS
AXLE RETHREADERS
BUSHING EXTRACTORS

Other specials for Ford, Chevrolet, Buick, Hudson and Essex, Chrysler and others. Aviation inquiries solicited.

TRUTH TOOLS ARE GUARANTEED TO BE REPLACED FREE IF THEY BREAK.

We have no jobber connections.

COWDEN TRUTH TOOLS

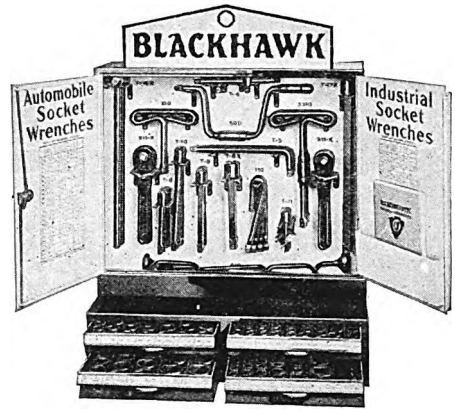
MANKATO, MINNESOTA

TRUTH TRUTH TRUTH TRUTH

PLEASE SEND ME THE 1930 TRUTH TOOL CATALOGUE

PLEASE WRITE DISTINCTLY OR PRINT

$164 PROFIT

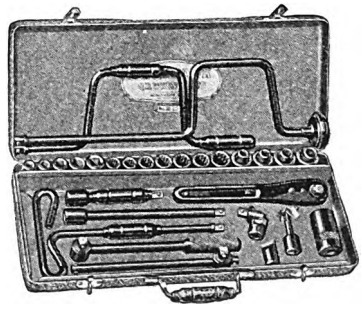


A GORGEOUS cabinet of lifetime steel. Blazing with colors that attract mechanics to it. Stock includes 113 sockets and handles—113 sources of profit.

Just one sale per day nets you $164.32 a year from only two square feet of counter space. Blackhawk's famous No. 10-A Cabinet Assortment.

From the stock you can make up such a set as illustrated below, and other combinations for garage and motorists' needs. This set trade is very profitable, and the Blackhawk Cabinet—kept on display—is the key to it.

Ask your jobber salesman. Write for catalog.



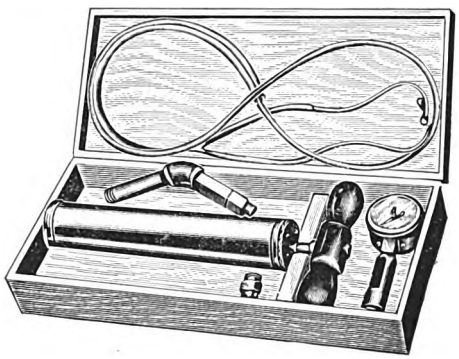
The fastest selling set in America—No. 32 CD.

BLACKHAWK MFG. CO.
Dept. C Milwaukee, Wis.

BLACKHAWK

Digitized by Google

HAMMETT
MOTOR TESTER



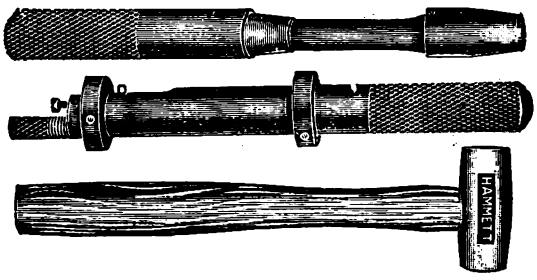
Ends Guess Work

This infallibly accurate instrument instantly locates bad bearings, worn pistons and rings, loose wrist pins and all other internal motor troubles. Offers a sure way of showing your customer what work his motor really needs.

HAMMETT FENDER AND BODY REPAIR TOOLS

equip any shop to handle all body and fender repair work efficiently, quickly and cheaply. These tools make any shop a complete rebuilding plant.

PISTON SERVICING TOOLS FOR MODEL A FORDS



Cut time and effort in half.

Bronze hammers for finishing, bumping and general service are well balanced, handy to use and made to withstand a lifetime of hard service.

These fine tools will raise the efficiency and thus the reputation of your shop.

HAMMETT MFG. CO.

13th and Oak
Kansas City, Mo.

MORTON HI-PRO KEYS
PATENTED

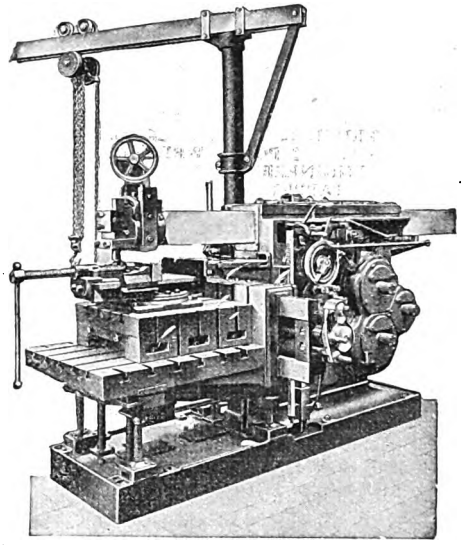
Revolutionizing the System of Keying

Hi-Pro Keys are self aligning, one blow and it is in place. It is its own gauge and will reduce assembly costs to a minimum. It has full bearing surface in the hub and shaft. A woodruff key takes several blows in lining up. Save these extra blows with a Hi-Pro.

We have carefully analyzed automotive key requirements and have an assortment of 100 Hi-Pro Keys that are selected sizes for garage use. Try out an assortment and see how quick they will sell and be used up. Or, we will gladly forward a few sample Hi-Pro Keys for your inspection and trial upon request. Tell us the size woodruff Keys now being used and we will do the rest. A copy of our Hi-Pro Bulletin 25 X is yours for the asking.

Morton Finished Machine Keys and Special Shapes are made by experts in Key Making. All spring is removed from Morton Keys making further filing and fitting unnecessary. Bulletin 15 X will tell more of our Superior Keys.

60″ STROKE HIGH DUTY DRAW-CUT SHAPER



We have been building Draw-Cut Tools for years. All shaper refinements of the last twenty years have originated on the Draw-Cut. They assure far greater output than the push cut or crank type shapers or planers. Morton Draw-Cut Shapers require one-half the floor space and one-third the power of planers of equal capacity. They have no equal in general shaping and planing and will show interesting savings on all work placed on them.

Other Morton Products

STATIONARY AND PORTABLE KEYWAY CUTTERS; SPECIAL HIGH DUTY DRAW-CUT SHAPERS; TRAVELING HEAD AND PORTABLE PLANERS; ROBINSON AUTOMATIC AIR COUPLINGS; WOLVERINE LUGGAGE CARRIERS.

Morton Manufacturing Company
Key Department
Muskegon Heights, Michigan

Digitized by Google

This $2.98 VULCANIZING OUTFIT

MAKES TUBE REPAIRS PROFITABLE

Shaler M Special, $2.98 complete. Consists of Two-clamp Vulcanizer, 20 Round, 20 Oblong and 10 Extra Long Shaler Patches.

SHALER

REG. U. S. PAT. OFF.

1. Takes a space only 5 x 20 inches. Can be screwed to wall or work bench. Place a Shaler Patch Unit over puncture. Screw clamp tight.

2. Light the solid prepared fuel. In five minutes the Shaler Patch is automatically heat-welded to the tube. The cleanest, fastest tire repair method.

SPECIAL DEAL to Garages, Repair Shops, Service Stations

Take advantage of this opportunity to get a genuine Shaler Shop Vulcanizer for $2.98. With it you get a supply of 50 Shaler Patches. When used, they bring in $22.02 net, figuring only 50c a repair. And you still have the vulcanizer to make guaranteed repairs for years and years by getting additional patches from your jobber.

Why Motorists Are Demanding Shaler Tire Repairs

First, fast driving nowadays demands a puncture patch that won't leak air or come off when the tire gets hot. Second, nation-wide advertising, over the radio and in newspapers has been hammering home this message to motorists in no uncertain terms. As a result of this, motorists are demanding Shaler Patches when they have a flat fixed. The Shaler M Special "deal" enables you to get in on this demand. And it costs you only $2.98. When ordering from your jobber, be sure to include a supply of Shaler 5-minute Vulcanizers for motorist's use, and extra cans of Shaler Patches for resale to Shaler users.

Tire Repair Equipment

Any jobber can give you complete information and prices on Shaler Tire Vulcanizers, steam, electric and steam-electric tube plates, tire repair materials and Vulcanizer's tools.

THE SHALER COMPANY
728 Fourth St., Waupun, Wis.
Factories: Milwaukee and Waupun, Wisconsin

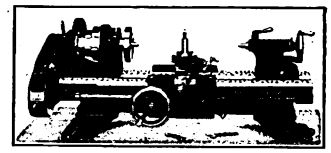
Export Division
The Shaler Company
Milwaukee, Wis., U. S. A.
Cable Address: SHALERIZE

(A-1212)

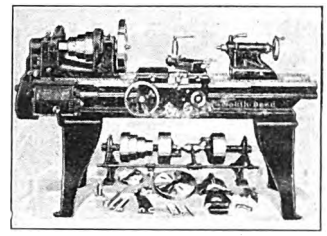
New Model South Bend Back-Geared Screw Cutting Precision Lathes

96 Sizes and Types

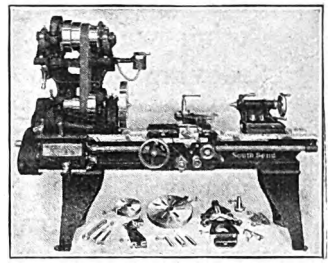
South Bend Lathes are made in sizes 9" to 24" swing with 3' to 12' bed lengths and may be had with countershaft or motor drive, in tool room, production and gap bed types. Below are listed a few popular models



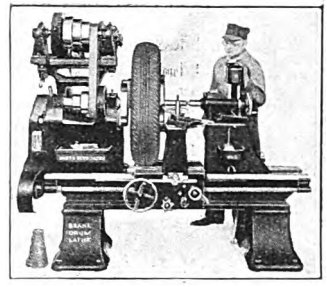
9" x 3' Junior Back-Geared, Screw Cutting, Precision Lathe, made in 2½', 3', 3½', 4' and 4½' bed lengths with bench or floor legs in both countershaft and motor drive types. Lathe will cut screw threads, true commutators, reface valves, make bushings, finish pistons, and do hundreds of other jobs. *Weight 375 lbs. Complete with Countershaft and Equipment, Price . . .* **$169**
Payments: $33.80 Down, Balance $11.83 a Month for 12 Mos.



16" x 6' Quick Change Back-Geared, Screw Cutting, Precision Lathe made in 6', 7', 8', 10' and 12' bed lengths, with countershaft or motor drive, in standard change, tool room and gap bed types. Used by thousands of plants and shops all over the world. *Complete with Countershaft and Equipment, Weight 1,875 lbs., Price . . . . . .* **$598**
Easy Payments: $119.60 Down, Balance $41.86 a Month for 12 Mos.

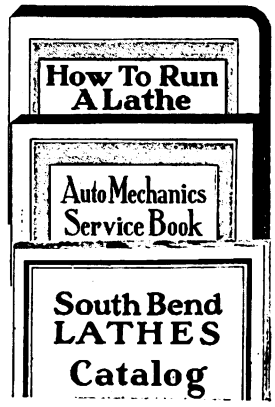


18" x 8' Motor Driven Quick Change, Back-Geared, Screw Cutting, Precision Lathe, furnished in 6', 7', 8', 10', 12' and 14' bed lengths; also furnished in countershaft drive and in standard change, tool room, production and gap bed types. Handles large and small work equally well — the practical size for flywheel and ring gear replacement work. *Complete with Reversing Motor, Reversing Switch and Regular Lathe Equipment, Weight 3,240 lbs., Price . . .* **$997**
Payments: $199.40 Down and $69.79 a Month for 12 Mos.



Brake Drum Lathe, Motor Drive — A standard change, back-geared, screw cutting lathe; handles all wheel and brake drum work for passenger cars, buses and trucks without removing tires; also does flywheel and ring gear replacement work as well as hundreds of other regular lathe jobs; cuts screw threads 4 to 40 per inch. Can be had fitted with quick change gear box and with either countershaft or motor drive. *Easy Payments if desired.*
36" x 6' Size Handles Wheels 36" in Diameter, Price . . . **$867**

WRITE FOR THESE BOOKS



"How to Run a Lathe," *25c*
Latest Edition, contains 160 pages, with more than 300 illustrations. Most complete and practical book on lathe operation. Shows how to handle 400 different types of lathe jobs as practiced in the modern machine shop. Furnished in either English or Spanish language. Sent postpaid for only 25 cents; coin or stamps of any country accepted.

Auto Mechanics' Service Book No. 66—*25c postpaid*
This 96 page book, with 200 illustrations, describes the correct and most practical way to do 60 automobile service jobs that come to the shop. A valuable book for any mechanic.

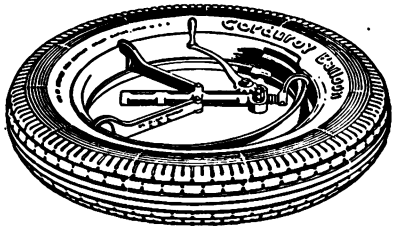
Catalog No. 91-A—*Free*
This 104 page book illustrates and describes the 96 different sizes and types of New Model South Bend Lathes. Also printed in Spanish language. Sent free postpaid upon request.

South Bend Lathe Works

373 East Madison Street, South Bend, Indiana, U. S. A.
Lathe Builders for 24 Years — Over 50,000 South Bend Lathes in Use

Digitized by Google

HERCULES RIM TOOLS



ORIGINAL UNIVERSAL SCREW TYPE RIM TOOL. HANDLES ALL SIZES OF SPLIT RIMS WITHOUT ADJUSTMENT

Has the powerful leverage of a screw Jack and operates on the same simple principle. Turn the handle one way to shrink and the other way to expand without removing the tool from the rim. Made of the best malleable iron, and steel screw. Superior to all others in construction and usefulness, fully guaranteed and without competition as to efficiency and price.

Model B	20#	List	$12.50
Model A	10#	List	5.00
Model CO	8#	List	3.00
Atlas	7#	List	2.50
Atlas Jr.	6#	List	2.00

Wolf Jaw Grass Clipper

A Fast Selling Article for Accessory Dealers

Guaranteed to be a perfect grass clipper. Sharpens itself and makes grass clipping, trimming of lawns along walks, drives and around shrubbery an easy task. No stooping, crawling or back-breaking with a Wolf-Jaw.

List Price $1.50

HERCULES PRODUCTS CO.
ST. JOSEPH, MICHIGAN

WHAT HAVE YOU TO SELL ?

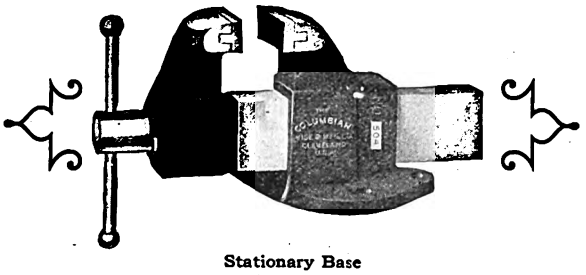
We buy and sell surplus and obsolete lots of any quantity and any kind of Standard makes of Ball and Roller Bearings. Also any new parts (that are wearing parts) for the Automobile and Airplane. FOR QUICK LIQUIDATION WIRE OR PHONE US.

KEYSTONE SALES CORPORATION

1826 Sixth Street
Detroit, Mich.

Digitized by Google

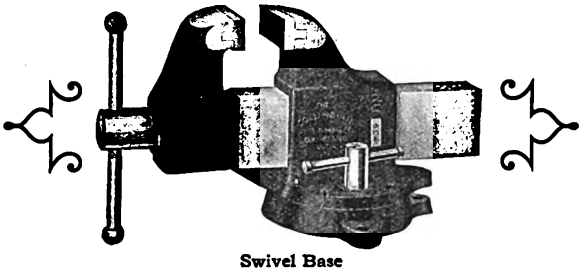
UNBREAKABLE
Malleable Iron
MACHINISTS' VISES



Stationary Base

Vise No.	Width Jaw	List Price
502½	2½"	$ 9.00
503	3"	10.00
503½	3½"	11.25
504	4"	12.75
504½	4½"	15.50
505	5"	20.00
505½	5½"	30.00
506	6"	39.00
507	7"	55.00
508	8"	75.00

COLUMBIAN Vises have long been distinguished for their sturdy durability. Made of malleable iron and each vise sledge-tested at the factory, they assure continued service and long-lasting satisfaction in spite of hard use or abuse.



Swivel Base

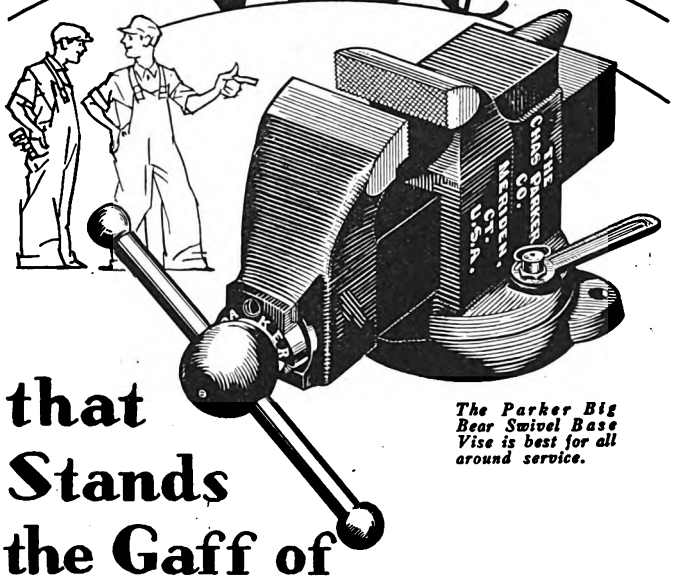
COLUMBIAN Vises and Clamps have been serving industry for more than a quarter of a century. In the complete Columbian line will be found vises and clamps for every purpose, a size for every need. Send for the Columbian Complete Line Catalog.

Vise No.	Width Jaw	List Price
602½	2½"	$12.00
603	3"	13.00
603½	3½"	15.00
604	4"	17.00
604½	4½"	20.00
605	5"	30.00
605½	5½"	38.00
606	6"	52.00
607	7"	70.00
608	8"	98.00

The COLUMBIAN VISE & MFG. CO.
9017 Bessemer Avenue
CLEVELAND, OHIO

COLUMBIAN VISES

Here's the Vise



The Parker Big Bear Swivel Base Vise is best for all around service.

that Stands the Gaff of Service Station Work

The Parker Vise stands the gaff of hard work because it has the weight and strength where it is most needed. It is from 15 to 30 lbs. OVER WEIGHT and the anvil is in proportion to the size of the vise.

The Parker Vise is made particularly to meet your working requirements and our long experience assures you of years of satisfactory service.

Use more Parker Vises in your shop—they are real Service Station and Garage Vises. See your jobber salesman.

7 REASONS FOR PARKER PREFERENCE

1. Renewable Steel Jaws.
2. Swivel base, 360 degrees gripping power.
3. Outside saddle permits easy removal of screw for oiling.
4. Solid underportion gives added strength.
5. Set Screw in handle.
6. Castings of Parkco Metal.
7. Full sized screw and nut.

Send for the Booklet describing Parker Vises

PARKER VISES

GRIP LIKE A GRIZZLY

THE CHARLES PARKER CO., *Master Vise Makers*
Meriden, Conn., U. S. A.
N. Y. Salesroom, 25 Murray St., N. Y. C.
MAKERS OF THE FAMOUS PARKER GUN

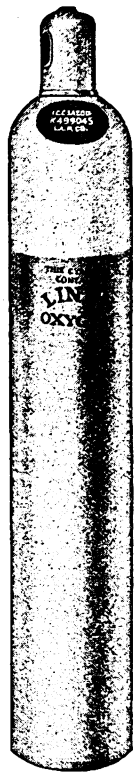
Digitized by Google

The Linde Air Products Company

Unit of Union Carbide UCC and Carbon Corporation

Carbide and Carbon Building, NEW YORK, N. Y. — Carbide and Carbon Building, CHICAGO, ILL. — Adam Grant Building, SAN FRANCISCO, CALIF.
925 North 28th Street, BIRMINGHAM, ALA. — 910 Baltimore Ave., KANSAS CITY, MO.

Sales Offices in the Principal Cities



LINDE OXYGEN

Linde Oxygen is available in every manufacturing district in the country. Sixty-four plants and 174 warehouse stocks make up a great service facility providing dependable deliveries to oxygen users everywhere. This service to Linde users has maintained Linde's standing, since the beginning as THE LARGEST PRODUCER OF OXYGEN IN THE WORLD.

The Scope of Linde Service. Vast experience, gained by intensive contact with the development of the oxy-acetylene process, provides Linde Engineers a valuable fund of information and helpful data. This experience is readily available to Linde users.

Unit of Supply and Prices. Linde Oxygen is furnished in cylinders of two capacities. The standard type contains 220 cu. ft. of oxygen and is usually preferred. Cylinders of 110 cu. ft. capacity are available where consumption does not justify use of the larger size. Prices vary slightly at different points, on account of freight, cartage, etc. Quotations are made per 100 cu. ft., f.o.b. Linde distributing points.

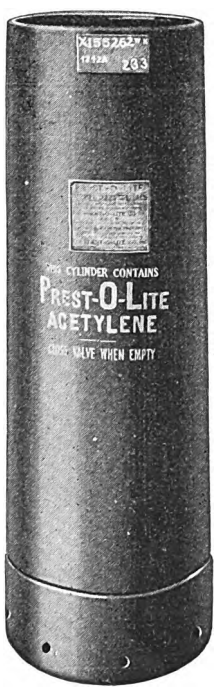
District Offices. Correspondence regarding prices and terms, as well as information regarding applications of the oxy-acetylene process, should be addressed to THE LINDE AIR PRODUCTS COMPANY at the nearest sales office.

THE PREST-O-LITE COMPANY, Inc.

Unit of Union Carbide UCC and Carbon Corporation

Carbide and Carbon Building, NEW YORK, N. Y. — Carbide and Carbon Building, CHICAGO, ILL. — Adam Grant Building, SAN FRANCISCO, CALIF.
925 North 28th Street, BIRMINGHAM, ALA. — 910 Baltimore Ave., KANSAS CITY, MO.

Sales Offices in the Principal Cities



PREST-O-LITE DISSOLVED ACETYLENE

Prest-O-Lite Dissolved Acetylene has made possible the use of a uniformly high quality gas in an easily portable and economical form. On the welders' hand truck it is instantly accessible, and quickly and easily wheeled to any job. It meets every requirement of welders and cutters.

Delivery Service. Prest-O-Lite distribution facilities include a total of forty-seven plants and 156 warehouse stocks. This assures prompt delivery service at all times to Prest-O-Lite users.

How Prest-O-Lite is Supplied. Prest-O-Lite is supplied in two sizes of cylinders: Style "WC" of approximately 100 cu. ft. capacity, and Style "WK" of approximately 300 cu. ft. capacity. Under the Prest-O-Lite distributing system the holder of an exhausted Prest-O-Lite cylinder may promptly exchange it for another Prest-O-Lite, of like size, fully charged and ready for use. The only cost involved in this exchange is the price of the gas in the charged cylinder f.o.b., Prest-O-Lite distributing points.

How to Order Prest-O-Lite. Communicate with the nearest Sales Office for arrangements to cover requirements.

Digitized by Google

OXWELD ACETYLENE COMPANY

Unit of Union Carbide and Carbon Corporation

Carbide and Carbon Building
NEW YORK, N. Y.

Carbide and Carbon Building
CHICAGO, ILL.

Adam Grant Building
SAN FRANCISCO, CALIF.

925 North 28th Street
BIRMINGHAM, ALA.

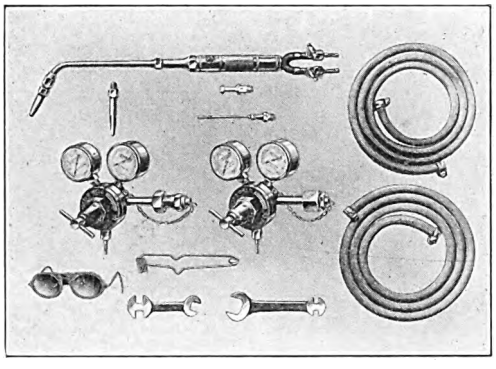
910 Baltimore Ave.
KANSAS CITY, MO.

Sales Offices in the Principal Cities

PREST-O-WELD

Welding Equipment and Supplies

The Prest-O-Weld Auto Repair Outfit will efficiently fill the many needs of the service station for oxy-acetylene welding and heating equipment. The cost is so reasonable that a few jobs will pay for it. Any good mechanic can readily learn to use it effectively for the wide range of profitable jobs that can be done by welding in the repair and maintenance of automobiles.



Type W-101-A Auto Repair Outfit

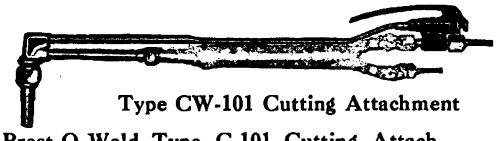
This outfit consists of:

1 Type W-101 Welding Blowpipe with 9-in. stem, Nos. 6 and 10 Tips Friction Lighter, and Wrench.
1 W-101-H Heating Tip.
1 W-101-RS Radiator Soldering Tip.
1 R-106 Oxygen Regulator with 50-lb. and 3000 lb. gauges and Wrench.
1 R-107 Acetylene Regulator with 30-lb. and 350-lb. gauges.
12 ½ feet ¼ in. red Acetylene Hose.
12 ½ feet ¼ in. green Oxygen Hose.
4 ¼ in. Hose Clamps.
1 Pair No. 8 Spectacles.
1 Instruction Manual.

Price **$55.00**

The No. 6 Tip will handle the normal range of automobile welding jobs, while the No. 10 Tip will supply ample heat for frame-straightening and other heavy-duty heating operations, as well as handling heavy welding work. If additional tips of other sizes are required for unusual jobs, they can be quickly procured from well-stocked Prest-O-Weld dealers at $1.50 each.

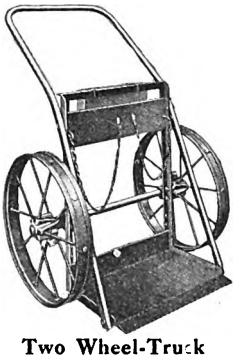
Useful additions available for the outfit include the CW-101 Cutting Attachment, which adapts the Type W-101 Welding Blowpipe for cutting of wrought iron and steel; and the Two-Wheel Truck which makes the outfit, including oxygen and acetylene cylinders, easy to move about the shop. The prices of these are:



Type CW-101 Cutting Attachment

Prest-O-Weld Type C-101 Cutting Attachment with Nos. 1 and 2 Nozzles..... $18.00
Prest-O-Weld Two-Wheel Truck with 14-inch wheels 18.00
With 24-inch wheels 21.00

The Service Station doing the average type of repair and maintenance welding will find it useful to keep on hand moderate stocks of the following supplies:



Two Wheel-Truck

Oxweld No. 7 Drawn Iron Welding Rod
Oxweld No. 10 Bronze Welding Rod
Oxweld No. 21 H.S. Bronze Welding Rod
Oxweld No. 9 Cast Iron Alloy Welding Rod
Oxweld No. 15 Aluminum Welding Rod
Oxweld Ferro Flux (for cast iron)
Oxweld Brazo Flux (for bronze welding)

PREST-O-WELD EQUIPMENT AND SUPPLIES

Prest-O-Weld apparatus and supplies are made by Oxweld Acetylene Company, the largest manufacturers of welding and cutting equipment in the world. The quarter-century of manufacturing experience behind Prest-O-Weld equipment is a guarantee of economy and absolute dependability.

Your Prest-O-Weld jobber can supply you with Prest-O-Weld regulators and blowpipes for every range of welding and cutting operations. He also carries a full stock of Prest-O-Weld accessories and supplies, including goggles, gloves, oxygen and acetylene hose, and hose connections, as well as Prest-O-Weld blowpipe stems and tips, cutting nozzles, regulator gauges and spark lighters.

Inspect the Prest-O-Weld line at your jobbers—or write us for complete information and prices.

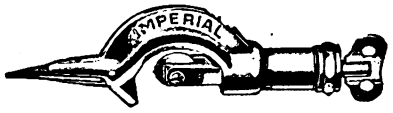
Sold by Prest-O-Weld Jobbers Everywhere

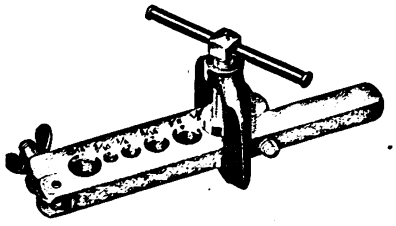
Digitized by Google

Imperial

AUTOMOTIVE SPECIALTIES

- Welding Equipment
- Tube Cutters
- Flaring Tools
- Primers





- △ Acetylene Generators
- △ Air Nozzles
- △ Airplane Tube Couplings
- △ Car Washers
- △ Carbon removing outfits
- △ Cocks, Shut off, Drain
- △ Compression fittings
- △ Copper tube benders
- △ Copper tube cutters
- △ Copper tube couplings
- △ Copper tubing
- △ Cutting Torches
- △ Dash Controls
- △ Drain Cocks
- △ Engine Cleaners
- △ Engine Primers
- △ Gas line fittings
- △ Gasoline Strainers
- △ Hand pumps
- △ Lead burning equipment
- △ Motor cleaners
- △ Oxy-acetylene welding equipment
- △ Pipe fittings
- △ Paint Spray equipment
- △ Regulators
- △ S.A.E. Fittings
- △ Step Plates
- △ Valves
- △ Welding Flux

Our welding equipment has long been the standard in the repair shop and garage.

We have sets in every price class for your requirements.

Imperial equipment or tools assure you the best dollar-for-dollar value.

Primers, Strainers and Tube Fittings are fast sellers and guaranteed as to quality and efficiency.

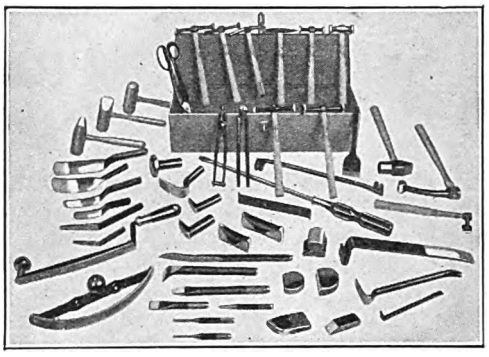
Write for catalog or see your jobber today.

The IMPERIAL BRASS MFG. COMPANY

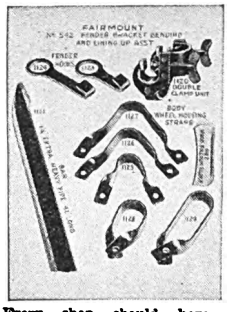
1225 WEST HARRISON STREET

CHICAGO, U. S. A.

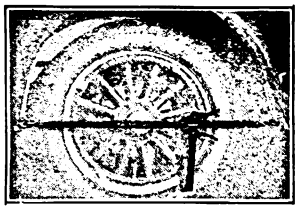
The Standard In Shops Providing Top Quality Body and Fender Refinishing Service



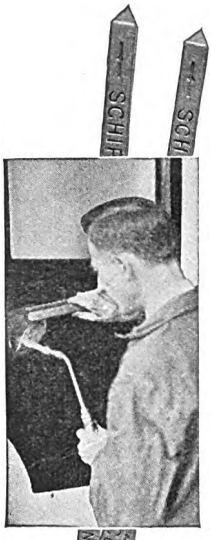
No. 629 Fairmount Assortment contains 53 individual tools, all of which are necessary in the shops providing complete body and fender refinishing service. Packed in steel box—Complete, $30.00.

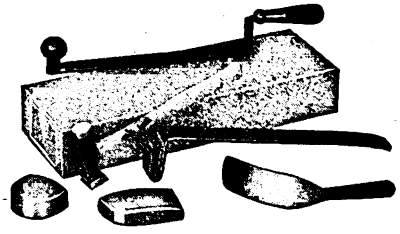


Every shop should have this general all 'round utility assortment. Price, complete $8.00.



Fairmount No. 1115 Fender Shrinking Clamp—a popular tool in the better shops. Closed, it has overall dimensions of 28 inches. Extended, the overall is 45 inches. Price, Complete, $7.00 each.





Shown above is the No. 625 Fairmount Apprentice Assortment of Drop Forged Body and Fender Tools. It contains six of the most popular numbers and sells for $7.75.

WHERE IT IS EXPENSIVE TO USE REGULAR TOOLS

Wherever body injuries are hard to get at with body tools, or where it is too costly to remove trimming, upholstery, door posts and other supports, "Body Fill" metal—a new Fairmount product—solves the problem.

Number 830 "Body Fill" metal is used for filling steel and aluminum. Number 831 "Body Fill" metal is for tinning only on aluminum.

THE FAIRMOUNT TOOL & FORGING CO.
10011 QUINCY AVE. CLEVELAND, OHIO
FAIRMOUNT TOOLS GIVE SERVICE AND SATISFACTION

ORDER BY NUMBER FROM YOUR JOBBER

Digitized by Google

RUST

PREVENTING
AND REMOVING

CHEMICALS

Deoxidine—
Eradicates rust, neutralizes acids, cleans, and prepares the surface for painting.

Deoxylyte—
A neutralizer for sheet metal parts to prepare them for coatings of high bake enamels.

Flosol—
A non-fuming soldering acid. Both cleans and fluxes. Operates even on an oily surface.

Peroline—
Chemical oil coating, neutralizes acids, prevents rust.

Rodine—
A. C. P. Pickle control. Saves acid, prevents fuming, pitting and over-pickling.

Kemick—
A gray black chemical heat resisting paint for exhaust manifolds. Prevents rust. Will not burn off even when heated to redness.

Lithoform—
Prevents paint peeling from galvanized iron, tin and terne plate.

Stripple—
High-speed paint and enamel remover.

AMERICAN CHEMICAL PAINT COMPANY

General Offices and Factory
Ambler, Pa.

Canadian Factory
Windsor, Ont.

Detroit
6339 Palmer Avenue, E.

Agents in European Countries

Shipments from Ambler or Canadian Factories or Detroit Emergency Stock

RUBBER CEMENT

FOR EVERY USE

Sticks
Leather *to* leather
Rubber *to* rubber
Cloth *to* cloth
Rubber *to* wood
Rubber *to* steel
and each to one another

✦

CHEMICAL AUTO ACCESSORIES

Radiator Flush
Radiator Seal Comp.
Radiator Non-Freeze
Gasket Shellac Comp.
Carbon Remover
and many others

✦

TIRE TAPE
FRICTION TAPE
Etc.

ALL UNDER *RED X* BRAND

St. Louis Rubber Cement Co.
3952 West Pine Boulevard, St. Louis, Mo.

Digitized by Google

PEP

"Prove All Things; Hold Fast to That Which is Good."

THAT advice is as sound today as it was when it was given nearly 2000 years ago.

Have you "proved" the PEP GRINDING COMPOUNDS for yourself? If you have, you are holding fast to them. If you haven't, prove PEP now, at our expense, and save the money that extra grinding time is costing you—the time you are still at work after PEP would have finished the job. In quality of work, as well as speed, PEP is first.

PEP BEARING FITTING COMPOUND and PEP LAPPING COMPOUND are money savers too.

Prove this up by mailing in that little coupon down in the corner—NOW, before the telephone rings! If you're in the repair business, the coupon brings you a regular can FREE. After that, it's easy to "hold fast," because your jobber has PEP.

PEP MFG. CO., Inc., 33 West 24th Street, New York City
Check free sample wanted
PEP VALVE COMPOUND [ ] PEP BEARING COMPOUND [ ]
Name .....
Address .....
City.....State .....
C.A.M.G. 1

CLOVER

GRINDING AND LAPPING COMPOUND

4 oz. Duplex Can, for the tool kit, contains two grades: D Coarse for roughing and A Fine for finishing. The compound in this can is suitable for grinding valves; lapping cylinders; fitting rings; etc.

Price.....50c.

2 oz. Duplex Can, similar to 4 oz., only smaller.

Price.....30c

For Shop and Tool Room made in eight grades as follows: 2-A Microscopic Fine; 1-A Very Fine; A Fine; B Medium Fine; C Medium Coarse; D Coarse; E Very Coarse and No. 50 Extra Coarse.

¼ lb. any grade.....$ .50
½ lb. " " ..... .85
1 lb. " " 1.50
5 lb. " " 6.00

CLOVER WATER-MIXED VALVE GRINDING COMPOUND

Made in two grades, Medium and Coarse. Either grade does the entire job; the one to be used being a matter of choice.

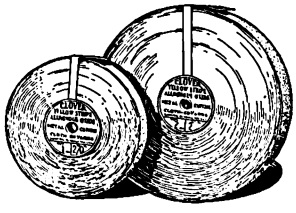
2 oz., either grade.....$ .30
4 oz., " " ..... .50
1 lb., " " 1.50

CLOVER COLOR-STRIPE ABRASIVE PAPER AND CLOTHS

Green-Stripe Flint Paper nine grits, 3/0 to 3, in the standard 9 x 11 and in the 8¾ x 10½ sheets. Sold in shelf boxes or by the ream.

Red-Stripe Turkish Emery Cloth grits 3/0 to 2, put up in reams: also sold in decorated boxes of 50 sheets each—wrapped in quires.

Yellow-Stripe Aluminous Oxide Cloth grits 3/0 to 2, 9 x 11 sheets—wrapped in quires—packed in reams; also sold in boxes of 50 sheets each.



Economy Rolls Aluminous Oxide Cloth seven grits; in widths 1", 1½" and 2"; in 50 yard rolls.

Just a post card request will bring you samples of any or all of the above.

Ask for a copy of "Coated Abrasive Materials" —describes what they are; how they are used; and how made.

Clover Manufacturing Co.
NORWALK, CONN.

Digitized by Google

TAGS THAT SAY:

This shows the well known Unique Acid Proof Battery Number, Product No. 5. Large numbers are used on practically all Unique Tags.

You Can't Go Wrong on UNIQUE Printed Forms *For All Automotive Purposes*

UNIQUE Automotive Printed Forms, Battery Tags, Tire Tags, General Purpose Tags, Garage Storage Tags, etc., will meet your demands in a simple and satisfactory way. A small investment in UNIQUE printed products will enable you to eliminate losses resulting from lack of complete information, carelessness, or makeshift methods.

The variety of UNIQUE forms fit practically every condition, they are simple to use, they save time and labor, and are very lowly priced.

Auto Repair Order Forms
Auto Repair Tags
Battery Tags
Storage Tags
Super Service Tags
Tire Repair Tags
Garage and Service Station Business Stationery
New and Used Car Forms
Time Cards
Stock Room Forms
Parts Forms
Labels of All Kinds
Gum Stickers for Every Purpose

Write for Samples of our Complete Line, Together with our New Low Price List—No Obligation.

=UNIQUE=

PRINTED PRODUCTS CO.

2224 N. 13th St.
TERRE HAUTE, INDIANA

MORE SALES INFORMATION by other companies given on the following pages—

Front Cover
Inside Front Cover
Opposite Inside Front Cover
Opposite Title Page
Page Two
Page Four
Page Six
Page Eight
Page Ten
Second Page from Inside Back Cover
Opposite Inside Back Cover
Inside Back Cover
Back Cover
Page 203
Page 205
Page 207
Page 211
Page 223
Page 225
Page 227
Page 229
Page 231
Page 241
Page 243
Pages 246-247
Page 249
Page 251
Page 263
Page 265
Page 279

Digitized by Google

General Automotive REFERENCE SECTION

(For Detailed Index to Contents see pages 7, 9)

Passenger Car Sales in United States by Makes

Actual Sales for 1929 and Eight Months of 1930, Also the Percentage of Total Sales for Each Make for 1928, 1929 and Eight Months 1930.

Make of Car	Total Sales 1929	Per Cent of Total Sales			8 Months 1930	8 Months 1929
		1929	1928	1930†		
AUBURN	19,274	.47	.4	.51	10,699	14,521
Auburn	18,447	.46	.4	.44	9,137	14,521
Cord	827	.01	.....	.07	1,562	.....
CHRYSLER MOTORS	356,949	8.87	10.8	8.42	177,802	259,961
Chrysler	87,478	2.17	4.8	2.26	47,888	62,244
Plymouth	87,944	2.19	.9	2.30	48,665	65,116
Dodge	119,826	2.98	4.7	2.47	52,070	87,280
De Soto	61,701	1.53	.4	1.39	29,179	45,321
DURANT	49,386	1.23	2.3	.84	17,774	37,865
FORD MOTOR	1,362,339	33.93	14.4	41.41	874,503	976,978
Ford	1,355,973	33.77	14.2	41.26	871,332	972,577
Lincoln	6,366	.16	.2	.15	3,171	4,401
FRANKLIN	11,079	.28	.....	.27	5,713	8,019
GARDNER	2,118	.05	.....	.04	843	1,618
GENERAL MOTORS	1,315,558	32.81	42.4	33.85	714,794	962,754
Buick	162,306	4.04	6.3	4.17	88,121	118,091
Marquette	15,988	.40	.....	.....	.....	.....
Cadillac	15,459	.38	.6	.35	7,448	10,035
LaSalle	21,002	.52	.6	.40	8,457	13,888
Chevrolet	807,292	20.17	25.4	23.41	494,207	589,288
Oakland	32,945	.82	1.2	.84	17,713	24,873
Pontiac	163,812	4.08	5.9	2.64	55,740	130,457
Oldsmobile	92,555	2.30	2.4	1.95	41,102	73,269
Viking	4,199	.10	.....	.09	2,006	2,853
GRAHAM-PAIGE	62,604	1.56	1.9	1.16	24,548	47,363
HUDSON MOTORS	262,917	6.54	7.3	3.68	77,722	210,215
Essex	198,031	4.93	5.7	2.49	52,608	159,961
Hudson	64,886	1.61	1.6	1.19	25,114	50,254
HUPMOBILE	45,889	1.14	2.3*	.97	20,539	30,609
JORDAN	2,309	.06	.....	.04	872	1,738
LOCOMOBILE	339	.01	.....	.....	.....	.....
MARMON	23,115	.57	.5	.44	9,334	17,292
Marmon	8,946	.22	.5	.....	.....	.....
Roosevelt	14,169	.35	.....	.....	.....	.....
MOON-WINDSOR	1,616	.04	.....	.03	719	1,241
NASH	108,826	2.71	3.7	1.78	37,533	84,986
PACKARD	46,196	1.15	1.4	1.02	21,277	32,566
PEERLESS	8,606	.21	.....	.16	3,271	6,341
REO	17,926	.45	.7	.38	8,002	13,595
STUDEBAKER	94,439	2.35	3.6	2.28	48,098	70,434
Erskine	8,045	.20	.7	.....	.....	.....
Pierce-Arrow	8,701	.22	.2	.24	5,101	6,006
Studebaker	77,693	1.93	2.7	2.04	42,997	64,428
STUTZ	3,054	.07	.....	.03	645	2,162
Blackhawk	967	.02	.....	.....	.....	.....
Stutz	2,087	.05	.....	.....	.....	.....
WILLYS-OVERLAND	208,131	5.17	7.6	2.51	52,966	171,387
Whippet	168,048	4.18	6.1	.74	15,678	140,910
Willys	38,654	.96	1.3	1.23	25,958	.....
Stearns-Knight	1,429	.03	.2	.54	11,330	30,477
MISCELLANEOUS	13,287	.33	1.9	.07	1,461	13,048

*Includes Chandler. †First 8 months.

Many Uses Can Be Made of the Data on these 25 Pages

Digitized by Google

FIRST RECORDS of Significant Automotive Events

Milestones in Nearly Forty Years of Automotive History
Design—Engineering—Materials—Production—Marketing

Gathered here in one place for convenient reference are dates of the most important happenings in the development of the automotive vehicle in the United States, and of the introduction of the more important features in design, construction and equipment.

The information in this form is ready for many uses—preparing speeches, writing advertising literature, settling controversies about events, getting a general perspective of the growth of this industry quickly.

Of course, the origin of different practices in automobile design in many cases is somewhat indefinite as regards time. Any new device or practice is first conceived by the engineer or inventor; it is then embodied in the form of a model, and finally it is incorporated in vehicles in regular production. These different stages naturally are reached at different times. In preparing the information here, the effort has been—unless otherwise stated—to give the year during which any given feature was first incorporated in cars that were *sold* to the public. Of course, no record of this kind can ever be complete, but it is believed that most of the major events of lasting interest and most of the important features of present-day car construction are included.

1892

First gasoline automobile built in the U. S. (Duryea).

1895

First public automobile contest in the U. S. (Times-Herald race, Chicago).

1896

First automobile track races in U. S. (Narragansett, R. I.).

1898

Aluminum alloy first used for automobiles (Haynes).

First gasoline car delivered to purchaser (Winton).

Nickel steel used for axles and other parts (Haynes).

Electric cabs placed in service in New York.

1899

First public garage and repair shop opened in New York.

1900

Automatic spark advance used (Mercedes, Packard, Olds).

Automobile speedometer placed on market by Joseph W. Jones.

First front-mounted powerplant in U. S. (Columbia).

First four-cylinder air-cooled engine (Franklin).

First New York automobile show (old Madison Square Garden).

Wheel steering introduced in American practice (superseding tiller steering.)

1901

Shaft drive introduced.

First automobile endurance contest (New York-Buffalo).

Rear-entrance tonneau type of body introduced.

First law regulating automobile traffic (Connecticut).

1902

Chrome nickel steel in automobile construction.

High-speed tool steel (tungsten steel) in automobile manufacture.

Divided front seats or bucket seats for runabouts made their appearance.

First four-cylinder engines (of water-cooled, longitudinal-front-mounted type) in regular production cars in America (Locomobile).

Three-point support for powerplant introduced (Marmon).

1903

First pressed-steel automobile frame made in America (by A. O. Smith Co. for Peerless racer).

Radiators were first placed at front of engine space in American practice.

Glass windshields (glass fronts) made their appearance.

Canopy tops came into use.

Anti-skid chains introduced (Parsons).

1904

Side-entrance tonneau body superseded rear-entrance type.

Shock absorbers were brought to America from France by E. V. Hartford.

Automatic carburetors first fitted in American practice.

First straight eight vertical, longitudinal-mounted engine used in racing car (Peerless).

Blower cooling introduced (Frayer-Miller).

Engine lubrication under pressure (Pierce-Arrow).

1905

First magnetos for automobile ignition made in this country by Remy Brothers.

Beginning of the era of the high-wheeled motor-buggy type of car which lasted for several years.

Folding tops, then generally known as cape-cart tops, became regular equipment.

Annular ball bearings placed on American market (Hess-Bright).

Universal rim taking either clincher or straight side tire introduced (Goodyear).

Sleeve-valve engine (Knight) invented.

Six-cylinder engines introduced for stock cars (National).

Ignition locks first fitted.

1906

Direct high-tension magnetos introduced on American market (Bosch).

Drop frame (single drop at rear) introduced (Peerless).

A spring bumper, the forerunner of the present-day bumper, was developed by Ray Harroun.

Vibrator-type horn introduced.

Woven asbestos brake linings (Raybestos).

1907

Air brakes and air clutch control (now used on large buses) first used on four-cylinder Northern passenger car.

Taximeter cabs or taxicabs made their appearance in New York.

Vanadium steel was introduced in automobile construction (Ford).

Demountable rims (Firestone).

Magnetic-drag-type speedometer (Warner).

1908

Motor-driven horns introduced (Klaxon).

Digitized by Google

Cars with sleeve-valve engines put into production (Daimler-Knight).

Silent (toothed) chains were first used for front drives of production cars (Knight).

Integral cylinder and crankcase construction (Ford).

Left-hand steering (Ford).

1909

Bakelite placed on market.

1910

Torpedo-type (four-door) open bodies became the style.

1911

Electric starter introduced (Delco, on Cadillac).

Transversely split detachable rims introduced.

Phenol-condensation-product gears for front-end drives.

Worm-gear final drive for trucks (Pierce-Arrow).

1912

Engine temperature indicator (Boyce Motometer) placed on market.

Spiral bevel final drive adopted by Packard.

1913

Wire wheels of the triple-laced type first placed on American stock cars.

Bendix drive developed.

Beginning of the cyclecar era, which lasted only a few years.

Worm-gear drive for passenger cars (Edwards-Knight).

1914

Eight-cylinder V engine introduced by Cadillac.

Vacuum fuel feed was developed by Stewart-Warner Speedometer Corp.

Thermostatic water circulation control (Cadillac).

1915

Aluminum alloy pistons for stock cars.

Self-locking differential (M. & S.).

First twelve-cylinder car (Packard).

Lanchester torsional vibration damper first used in American practice (Packard).

1917

Wood wheels with steel felloes.

Steel disk wheels (Budd).

1919

Electric vaporizer in carburetor (Franklin).

1921

Hydraulic brakes (Duesenberg).

Cobalt-chrome steel and high-tungsten steel used for automobile exhaust valves (Rich Tool Co.).

Molybdenum steel in automobile construction (Wills-Ste. Claire).

First straight eight stock car on American market (Duesenberg).

First use of four-wheel brakes on American stock cars (Duesenberg).

First overhead camshaft engine for stock cars (Duesenberg and Wills-Ste. Claire).

1922

Silicon-chromium steel for exhaust valves (Thompson Products, Inc.).

Nickel plating of radiator shells, lamp covers, etc., became very popular.

1923

Balloon tires made their first appearance in this country.

High-pressure chassis lubrication was introduced (Alemite).

Lacquer finish for automobiles (Duco).

Ethyl fluid, the gasoline dope, was placed on the market.

Air cleaners on automobiles.

1924

Oil filters for the crankcase oil first fitted to stock cars (Purolator on Chrysler).

Vibration damper in clutch introduced (Franklin).

1925

Electric transmissions for buses came into use in this country.

1926

Hypoid gear drive (Packard).

Safety glass (wired-glass) in automobile body construction (Stutz).

Centralized chassis lubrication system (Bowen on Chandler).

1927

Chromium plating for automobile parts introduced.

Four-speed internal gear transmission (Warner Hiflex on Paige).

1928

Fuel feed by mechanical pump (AC).

1929

Front-wheel drive cars (Cord, Ruxton).

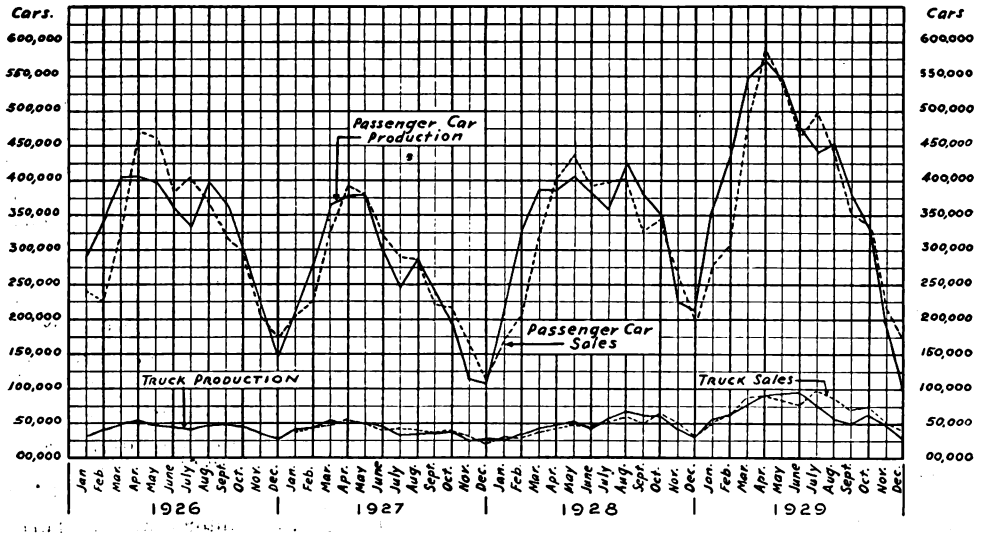
1930

Sixteen-cylinder cars (Cadillac).

First use of stainless steel for radiator shells in quantity production car (Ford).

Oil cooling adopted for first time as standard equipment on American production car (Hupmobile).

PRODUCTION AND SALES CHART (INCLUDING EXPORTS). UNITED STATES AND CANADA.



Digitized by Google

BIRTH DATES of Automobiles

Measured by the Date Each Was First Mentioned in Automobile Trade Journal or Other Chilton Class Journal Publications.

99 AUTOCAR
01 AJAX
01 AMERICAN
01 APPERSON
01 AUTOMOTOR
03 AUBURN
03 AUTO VEHICLE
04 ACME
04 ADAMS FARWELL
04 AMERICAN MERCEDES
04 AUSTIN
05 ARDSLEY
06 AEROCAR
06 AMERICAN MORS
07 ALBANY
07 ATLAS
08 ALLEN KINGSTON
08 AMERICAN SIMPLEX
09 ABBOTT DETROIT
09 ALCO
09 ANCHOR
10 AMPLEX
11 ALPENA
11 ATLAS KNIGHT
14 ALLEN
16 ANDERSON
20 ACE
21 AMBASSADOR
25 AJAX
00 BOLTE
01 BACHELLES
01 BALDNER
01 BUCKEYE
01 BUFFALO
02 BERG
02 BRECHT
02 BUFFUM
03 BARTHOLOMEW
03 BLACKHAWK
03 BLOOD
03 BRAMWELL
03 BRAZIER
03 BRISTOL
03 BUCKMOBILE
04 BATES
04 BREW & HATCHER
04 BUICK
05 BERKSHIRE
05 BLOMSTROM
05 BREEZE & LAWRENCE
06 BLISS
07 BAY STATE
07 BELDEN
07 BRUSH
08 BENDIX
08 BENNER
08 BLACK
08 BOSTON HIGH WHEEL
09 BERGDOLL
12 BURG
14 BRISCOE
15 BELL
15 BIDDLE
15 BOUR DAVIS
16 BREWSTER KNIGHT
20 BEGGS
22 BARLEY
29 BLACK HAWK
00 COLUMBIA
01 CENTURY
01 CRESTMOBILE
01 CONRAD
01 COTTA
01 COVERT
02 CADILLAC
02 CENTAUR
02 CLARKMOBILE
02 CLEVELAND
03 CAMERON
03 CHELSEA
03 CHURCH
03 CLOUGHLEY
03 CORBIN
04 COMPOUND
04 COURIER
05 CHADWICK
05 CRAWFORD
05 CULVER
06 CRAIG TOLEDO
07 COLBURN
07 CONTINENTAL
07 COSMOPOLITAN
07 CROWN HIGH WHEEL
08 CHALMERS
08 COATES GOSHEN
08 CORREJA
09 COLE
09 COURIER
09 CROXTON KEETON
09 CUTTING
10 CASE
11 CARHARTT
11 COEY
11 COLBY
11 CORBITT
11 CROW-ELKHART
11 CUNNINGHAM
12 CRANE
12 CHEVROLET
13 CHANDLER
17 COMET
17 COMMONWEALTH
19 CLEVELAND
20 CLIMBER
22 COURIER
24 CHRYSLER
29 CORD
95 DURYEA
00 DETROIT
01 DESBERON
02 DAVENPORT
02 DYKE
03 DARROW
03 DECKER
04 DOLSON
06 DEERE
06 DE SHAW
06 DORRIS
07 DELUXE
07 DRAGON
07 DUER
07 DUROCAR
09 DE TAMBLE
09 DETROIT DEARBORN
10 DAVIS
11 DALTON
11 DISPATCH
12 DETROITER
12 DUQUESNE
13 DESOTO
14 DILE
14 DODGE
15 DANIELS
15 DORT
16 DIXIE FLYER
16 DRUMMOND
17 DISBROW
20 DUESENBERG
20 DUPONT
21 DRIGGS
21 DURANT
25 DIANA
28 DESOTO
01 ELMORE
01 ESSEX
02 ECLIPSE
03 ELDRIDGE
05 EAGLE
08 E-M-F
08 EARL
09 ENGER
09 EVERITT
12 EDWARDS-KNIGHT
14 EMPIRE
16 ELCAR
16 ELGIN
17 ESSEX
21 EARL
26 ERSKINE
01 FOSTER
02 FANNING
02 FLINT
02 FRANKLIN
02 FREDONIA
02 FRIEDMAN
03 FORD
04 FRAYER-MILLER
06 FEDERAL
07 FIRESTONE-COLUMBUS
08 FARMOBILE
08 FULLER
09 F-A-L CAR
10 FLANDERS
11 FIAT
11 FOUR WHEEL DRIVE
14 F.R.P.
15 FARMACK
17 FAGEOL
17 FERGUS
20 FERRIS
20 FRIEND
21 FOX
23 FLINT
26 FALCON-KNIGHT
99 GROUT
00 GASMOBILE
00 GURLEY
02 GAETHMOBILE
03 GENERAL
03 GLIDE
03 GRAHAM-FOX
03 GREELEY
04 GALE
07 GARFORD
07 GEARLESS
07 GRISWOLD
08 GREAT WESTERN
11 GAYLORD
11 GREAT EAGLE
11 GREAT SOUTHERN
13 GRANT
17 GHENT
19 GARDNER
22 GRAY
27 GRAHAM-PAIGE
95 HAYNES-APPERSON
01 HAYNES
01 HOLLEY
03 HOFFMAN
03 HOWARD
05 HAMMER
05 HOLSMAN
06 HEWITT
07 HALLADAY
07 HATFIELD
08 HEINE VELOX
08 HUPP
09 HERRESHOFF
09 HOUPT
09 HUDSON
11 HAVERS
12 HENDERSON
14 HERFF-BROOKS
15 HACKETT
15 HARVARD
16 H. A. L.
16 HARROUN
16 HOLLIER
16 HOMER LAUGHLIN
18 HOLMES
20 H. C. S.
20 HANSON
21 HANDLEY-KNIGHT
22 HUFFMAN
00 IMPERIAL
01 INTERNATIONAL
03 IROQUOIS
08 INTER-STATE
99 JACKSON
00 JEFFERY
03 JAXON
06 JEWELL
08 JENKINS
11 JONZ
16 JONES
16 JORDAN
22 JEWETT
00 KNOX
03 KENSINGTON
03 KONIGSLOW
06 KISSEL
09 KENMORE
09 KLINE
09 K-R-I-T
10 KING
14 KERNS
16 KENT
20 KENWORTHY
21 KURTZ
22 KELSEY
00 LOOMIS
02 LAW
02 LOCOMOBILE
02 LONG DISTANCE
02 LOZIER
04 LAMBERT
04 LOGAN
04 LYMAN
05 LA PETITE
06 LUVERNE
08 LORRAINE
09 LEXINGTON
09 LYON
11 LEADER
11 LENOX
12 LITTIE
13 LEWIS
16 LAUREL
16 LIBERTY
20 LAFAYETTE
20 LEACH BILTWELL
21 LONE STAR
27 LASALLE
03 MACKLE THOMPSON
03 MARMON
03 MARR
03 MATHESON
03 MICHIGAN
03 MITCHELL
03 MODEL
03 MOHAWK
02 MOYEA
04 MAHONING
04 MAXWELL
04 MERCURY
05 MARION
05 MARSH
05 MOLINE
06 MARVEL
06 METEOR
06 MONARCH
06 MOON
06 MOORE
06 MUNCIE
07 MORA
08 MARYLAND
08 MCCUE
08 MIDLAND
08 MIER
09 MARATHON
09 MASON
09 MCINTYRE
09 MERCER
09 METZ
10 MCFARLAND
11 MARQUETTE
11 MOTORETTE
12 B. & F. MOYER
13 MOLINE KNIGHT
15 MADISON
15 MECCA
15 MONITOR
15 MONROE
16 MAIBOHM
16 MARION HANDLEY
16 MURRAY
20 MERIT
29 MARQUETTE
02 NORTHERN
03 NATIONAL
03 NIAGARA
12 NORWALK
12 NYBERG
17 NASH
17 NELSON
19 NOMA
97 OLDSMOBILE
98 OAKMAN
00 ORIENT
03 OVERLAND
07 OAKLAND
07 OKEY
08 OWEN THOMAS
09 OHIO
09 OTTO
12 OMAHA
14 OWEN
16 OGREN
17 OLYMPIAN
97 POPE HARTFORD
98 PITTSBURGH
99 PACKARD
00 PEERLESS
01 PEOPLES
01 POPE TOLEDO
02 PIERCE-ARROW
02 POMEROY
02 POPE ROBINSON
02 PHELPS
03 PAN AMERICAN
03 PREMIER
04 POPE TRIBUNE
04 PUNGS-FINCH
05 PRINCESS
06 PALMER
06 PAGE
06 PARAGON
07 PAYNE-MODERN
07 PENNSYLVANIA
07 PULLMAN
08 PALMER-SINGER
08 PATERSON
08 PONTIAC
09 PAIGE
09 PETREL
11 PATHFINDER
11 PENN
11 PICKARD
11 PILOT
11 PRATT
12 PERFEX
13 PARTIN-PALMER
16 PILGRIM
17 PAN AMERICAN
19 PIEDMONT
19 PORTER
26 PONTIAC
28 PLYMOUTH
05 QUEEN
00 RAMBLER
03 REBER
03 REGAS
03 RUSSELL
04 RELIANCE
04 REO
04 ROYAL TOURIST
05 RAINIER
08 REEVES
08 REGAL
08 RICHMOND
08 RIDER-LEWIS
11 R. C. H.
11 RAYFIELD
11 REPUBLIC
11 ROADER
11 ROGERS
13 READ
15 ROSS
16 ROAMER
18 REVERE
20 R & V KNIGHT
20 RALEIGH
20 ROCK FALLS
21 ROLLS-ROYCE
22 RICKENBACKER
22 RUBAY
23 ROLLIN
29 ROOSEVELT
99 ST. LOUIS
00 SPAULDING
00 STEARNS
01 SEARCHMONT
01 SMITH & MABLEY
02 SANDUSKY
02 STEVENS-DURYEA
03 SHAIN
03 SHELBY
04 SCHACHT
04 SPEEDWAY
04 SPRINGER
04 STUDEBAKER
04 STURTEVANT
05 STODDARD-DAYTON
06 SHAWMUT
06 SMITH
06 SUCCESS
06 SUNSET
07 SHOEMAKER
07 SIMPLICITY
07 SINGLE CENTER
07 SPRINGFIELD
08 SELDEN
08 SPEEDWELL
08 STAVER
08 STILSON
08 SULTAN
09 SALTER
09 SELLERS
09 SEBRING
09 SPOERER
09 STERLING
10 S. G. V.
11 STAFFORD
11 STEARNS-KNIGHT
11 STODDARD KNIGHT
11 STUYVESANT
12 STUTZ
14 SAXON
14 SCRIPPS-BOOTH
14 SPHYNX
15 SUN
16 STEPHENS
17 SAYERS
17 SENECA
17 STANDARD EIGHT
18 STATES
19 SPACKE
20 SKELTON
20 STANWOOD
21 SHERIDAN
22 STAR
23 STERLING KNIGHT
00 THOMSON
01 TAUNTON
02 THOMAS
02 TWYFORD
03 TINCHER
11 TRIUMPH
12 TOURAINE
13 TRIBUNE
14 TRUMBULL
14 TWOMBLY
17 TULSA
18 TEMPLAR
22 TARKINGTON
02 UNION
02 UPTON
08 VIKING
09 VELIE
11 VIRGINIAN
13 VULCAN
14 VIXEN
21 VOGUE
29 VIKING
97 WINTON
01 WARWICK
01 WOODS
02 WICK
03 WARD LEONARD
03 WELCH
03 WHITNEY
04 WAYNE
04 WOLVERINE
07 WOLF
09 WARREN-DETROIT
09 WASHINGTON
09 WHITE
09 WILCOX
10 WESTCOTT
11 WARREN
13 WILLYS-KNIGHT
18 WOODS
20 WASP
22 WILLS-ST. CLAIRE
26 WHIPPET
29 WINDSOR-WHITE PRINCE
03 YALE
05 YORK
03 ZENTMOBILE
09 ZIMMERMAN

Automobile Trade Journal, Horseless Age, Motor Age, The Automobile, Motor World—all Chilton Class Journal publications—were searched in the preparation of these birth records of over five hundred gasoline passenger cars.

As first mention in these different Chilton Class Journal publications in some cases was car description before production, while in others it was at the time of first production, these dates do not necessarily indicate exactly the same state of development for each automobile at time shown.

The dates, however, are an interesting guide to the time when the trade first heard of these cars through their trade journals from the beginning of the industry.

In case the same name is used by different companies at different times each date is given.

Digitized by Google

Sales Data by States for

COMPILED BY RESEARCH DEPARTMENT OF CHILTON CLASS

	State	Total Population Govermment Estimate, 1928. (Add 000).	Total Income. Millions of Dollars. (Add 000,000).	No. of Towns with Wholesalers.*	Number of Cities, Towns and Villages in Population Groups (1927)							Miles of Highways (1927)		
					Under 1,000	1,000 to 2,500	2,500 to 5,000	5,000 to 10,000	10,000 to 25,000	25,000 to 50,000	Over 50,000	Total	Total of Surfaced Highways	
1	Alabama	2,573	720	14	52	60	22	8	8	1	2	63,706	18,204	1
2	Arizona	474	234	7	44	17	10	7	1	1	0	21,666	3,150	2
3	Arkansas	1,944	563	9	173	57	27	9	3	1	1	74,545	6,269	3
4	California	4,556	4,635	79	421	121	63	29	13	6	8	85,156	23,665	4
5	Colorado	1,090	760	12	183	38	15	5	3	2	1	68,279	6,383	5
6	Connecticut	1,667	1,259	18	71	46	26	15	16	4	6	13,987	3,379	6
7	Delaware	244	198	2	31	10	3	0	0	0	1	3,796	927	7
8	Dist. of Columbia	552	683	1	0	0	0	0	0	0	1	.....	.....	8
9	Florida	1,411	568	16	132	54	12	9	2	2	2	29,583	13,735	9
10	Georgia	3,203	910	13	155	81	31	14	7	1	4	98,462	13,015	10
11	Idaho	546	282	6	92	44	11	7	2	0	0	37,349	7,940	11
12	Illinois	7,396	6,673	50	730	202	74	48	28	12	5	97,620	18,118	12
13	Indiana	3,176	1,792	42	498	100	37	23	19	6	5	73,609	50,284	13
14	Iowa	2,428	1,181	28	736	122	45	19	11	4	3	103,634	11,811	14
15	Kansas	1,835	1,185	34	574	82	35	8	14	0	3	129,246	3,609	15
16	Kentucky	2,553	934	15	251	61	24	17	4	2	2	61,261	15,618	16
17	Louisiana	1,950	710	11	131	45	22	10	3	0	1	33,120	9,501	17
18	Maine	795	562	9	156	91	24	14	6	2	1	21,002	4,832	18
19	Maryland	1,616	1,119	8	170	29	14	3	2	2	1	14,711	5,307	19
20	Massachusetts	4,290	4,080	32	123	95	63	52	39	14	13	19,348	8,485	20
21	Michigan	4,591	3,016	36	498	110	32	32	15	8	5	81,016	22,493	21
22	Minnesota	2,722	1,521	12	420	95	35	19	10	0	3	110,249	32,398	22
23	Mississippi	1,791	472	13	162	50	15	8	9	0	0	56,775	12,587	23
24	Missouri	3,523	2,038	25	570	120	39	15	7	2	3	110,547	11,739	24
25	Montana	549	338	9	140	26	6	6	4	2	0	66,881	2,799	25
26	Nebraska	1,408	894	16	422	64	16	10	3	0	2	93,903	3,979	26
27	Nevada	77	81	1	32	14	2	0	1	0	0	23,659	1,796	27
28	New Hampshire	456	330	6	84	45	11	6	6	1	1	12,025	2,391	28
29	New Jersey	3,821	3,247	37	220	76	54	34	17	8	12	16,677	8,057	29
30	New Mexico	396	157	4	71	16	12	4	1	0	0	48,217	2,144	30
31	New York	11,550	14,681	77	908	194	81	33	44	12	13	79,489	29,481	31
32	North Carolina	2,938	968	23	255	80	31	14	9	4	0	71,530	27,811	32
33	North Dakota	641	347	6	332	30	6	3	3	0	0	106,794	2,365	33
34	Ohio	6,826	4,486	63	712	142	50	43	26	12	9	84,753	43,977	34
35	Oklahoma	2,426	1,110	27	233	92	36	15	9	1	2	123,627	3,300	35
36	Oregon	902	679	20	175	74	13	8	4	0	1	51,658	11,814	36
37	Pennsylvania	9,854	8,225	78	787	219	125	77	53	9	13	91,241	24,533	37
38	Rhode Island	716	668	4	25	15	10	7	8	1	2	2,538	853	38
39	South Carolina	1,684	572	13	91	47	20	11	4	2	2	56,129	13,841	39
40	South Dakota	704	490	6	277	42	7	5	1	1	0	120,265	4,087	40
41	Tennessee	2,502	942	11	193	43	35	8	3	0	4	64,490	12,521	41
42	Texas	5,487	3,046	51	678	217	62	50	20	5	5	188,564	23,117	42
43	Utah	531	290	5	70	36	13	2	1	0	1	23,416	3,001	43
44	Vermont	352	306	8	127	38	6	6	3	0	0	15,036	4,692	44
45	Virginia	2,575	976	17	326	46	20	8	5	2	4	57,535	11,192	45
46	Washington	1,587	1,221	17	245	53	16	8	5	2	3	46,835	16,655	46
47	West Virginia	1,724	817	15	205	50	18	7	6	2	2	34,799	3,713	47
48	Wisconsin	2,953	1,708	26	561	81	43	20	11	8	2	79,528	25,792	48
49	Wyoming	247	178	5	68	21	3	3	2	0	0	45,328	1,361	49
	U. S.	120,312	82,852	1,037	3,610	3,491	1,375	759	471	142	149	3,013,584	588,721	

The data here in tabular form are ready for many uses. The 16 subjects on which figures are given will help you measure your markets, analyze your position with respect to the average in your state and indicate the direction of changes to make in your business to put you in line to meet the conditions in the current market.

The data here, by themselves and combined with other related data elsewhere in this book, will enable you to compare your operations with the average for stores of your kind and size and you can thus see where you are weak or strong and govern yourself accordingly.

Here you can compare sales per capita in passenger cars in your state with similar sales per capita in other states to see if your state is behind or ahead in consumption.

You can see also the number of potential customers upon whom you can draw for business and you can estimate their probable annual purchase of your merchandise or service and thus see if you are getting all the business that ought properly to come to a store like yours in your territory.

Digitized by Google

Analyzing Markets and Planning Sales

JOURNAL COMPANY FOR CHILTON AUTOMOTIVE GUIDE

	Registration of Motor Vehicles (1929)		No. of Persons Per Motor Vehicle.	Sales of 1929 Motor Vehicles		No. of Passenger Car Dealers.*	Pass. Car Sales Per Pass. Car Dealer	No. of Wholesalers.*†	No. Repair Shops.*	No. Repair Shops Per Wholesaler.	No. of Motor Vehicles per Repair Shop.*	No. of Retail Accessory Stores.	No. Pass. Cars Per Access. Store.	1929 Gasoline Consumption in Gallons† (Add. 000)	Gasoline Tax per Gallon. (Cents)	
	Passenger Cars	Trucks Including Buses		Passenger Cars	Trucks											
1	246,640	39,751	9.0	54,900	10,800	298	184	44	866	23	331	814	303	178,162	4	1
2	110,743	12,583	3.8	18,500	3,200	221	84	24	380	18	325	392	282	72,862	4	2
3	193,500	39,533	8.3	36,200	8,200	456	79	27	840	36	278	584	331	134,606	5	3
4	1,745,308	229,033	2.3	264,500	31,400	2,331	113	385	6,269	60	315	5,383	324	1,273,337	3	4
5	273,950	29,529	3.6	41,200	6,500	680	61	62	1,127	35	269	1,101	249	155,508	4	5
6	281,800	51,080	5.2	58,700	8,100	691	85	95	1,269	58	262	963	293	202,355	2	6
7	44,728	9,775	4.5	9,200	1,500	94	98	8	179	179	304	157	285	32,576	3	7
8	157,639	17,702	3.2	24,000	2,400	76	316	22	208	19	843	143	110	71,884	2	8
9	284,383	57,975	4.1	39,600	5,600	422	94	81	910	33	376	813	350	223,809	6	9
10	310,362	48,166	8.9	42,600	7,000	610	70	56	1,114	34	322	825	376	220,602	6	10
11	103,838	13,688	4.6	16,500	2,700	338	49	29	551	32	213	499	208	55,125	5	11
12	1,410,913	204,175	4.5	245,000	27,700	3,271	75	275	6,172	45	262	4,909	288	388,659	3	12
13	755,161	128,703	3.6	124,400	14,900	1,615	77	156	3,200	76	276	3,124	242	432,095	4	13
14	715,466	68,402	3.1	108,700	11,500	2,054	53	107	3,412	41	229	2,569	278	335,629	3	14
15	507,529	73,694	3.2	75,800	13,200	1,642	46	95	2,766	45	261	2,295	221	360,928	3	15
16	294,706	34,132	7.8	54,500	6,000	821	66	57	1,602	30	205	1,430	206	154,816	5	16
17	234,565	46,303	7.0	44,900	7,600	422	106	57	830	38	338	749	313	176,770	4	17
18	148,870	31,646	4.4	24,900	5,000	458	54	30	876	18	206	470	317	96,036	4	18
19	276,140	9,303	5.7	48,300	7,300	547	88	54	1,005	42	285	711	388	163,309	4	19
20	786,000	100,230	4.8	140,700	17,600	1,267	111	189	2,705	43	328	1,602	491	501,909	2	20
21	1,220,848	176,824	3.3	263,000	25,800	2,182	120	161	4,061	34	344	3,602	339	785,269	3	21
22	620,342	100,057	3.8	92,400	11,700	1,977	47	95	2,964	33	243	2,844	218	357,904	3	22
23	224,000	31,000	7.0	37,600	7,200	496	76	29	808	67	315	806	278	141,451	5	23
24	669,320	84,756	4.7	118,000	16,600	1,471	71	154	3,836	78	196	1,874	358	392,957	2	24
25	115,260	25,092	3.9	22,400	4,500	473	47	34	718	27	195	622	185	79,167	5	25
26	373,086	41,513	3.4	67,000	8,400	1,364	49	64	1,900	42	218	1,548	241	224,894	4	26
27	25,219	6,604	2.4	4,700	1,000	115	41	5	160	21	199	160	157	17,813	4	27
28	89,975	19,025	4.2	15,100	2,600	282	54	15	591	35	184	285	315	58,323	4	28
29	688,334	139,116	4.6	126,500	18,700	1,496	53	140	3,560	99	232	2,605	264	498,064	2	29
30	75,000	2,750	5.1	11,700	2,200	208	56	7	374	125	208	378	198	45,799	5	30
31	1,878,300	399,900	5.1	351,000	49,500	3,817	92	522	8,110	60	281	5,421	347	1,000,415	2	31
32	447,055	56,535	5.8	66,400	10,000	813	82	69	1,540	30	327	1,362	329	265,112	5	32
33	162,092	25,954	3.4	24,900	4,300	863	29	15	1,046	13	180	1,000	162	124,383	3	33
34	1,538,000	200,000	3.9	270,900	28,300	3,160	86	335	6,470	45	269	3,861	399	953,552	4	34
35	514,729	60,646	4.2	94,500	13,400	1,029	92	77	1,738	56	331	1,706	303	316,302	4	35
36	247,577	25,693	3.3	35,200	6,100	521	68	72	1,303	48	210	1,124	220	163,672	4	36
37	1,524,799	250,124	5.5	278,000	38,600	3,759	78	354	6,997	48	254	5,754	265	900,496	3	37
38	112,496	22,350	5.3	22,100	3,100	218	101	34	506	101	267	398	283	77,827	2	38
39	205,683	25,591	7.3	32,400	4,900	371	66	38	674	42	343	493	419	118,596	6	39
40	181,419	22,780	3.5	31,500	4,300	779	40	22	1,095	30	187	991	183	129,931	4	40
41	324,000	34,400	7.0	58,600	6,200	610	96	57	1,194	32	300	846	383	195,036	5	41
42	1,160,869	186,719	4.1	212,100	33,100	2,176	98	204	4,768	57	283	4,135	281	769,608	4	42
43	97,200	17,500	4.6	17,400	2,700	243	72	28	528	33	217	485	200	56,547	3½	43
44	84,321	8,709	3.8	12,300	2,100	264	47	17	603	46	154	290	291	43,992	4	44
45	328,947	61,711	6.6	60,600	10,200	918	66	62	1,809	48	216	1,602	206	208,304	5	45
46	385,033	63,247	3.5	55,600	8,300	950	58	129	2,308	29	194	2,078	185	253,457	3	46
47	229,011	39,322	6.4	40,600	5,400	770	53	60	1,463	32	184	1,166	196	126,539	4	47
48	689,133	105,810	3.7	107,400	14,900	2,494	43	113	3,386	36	235	3,202	215	393,396	2	48
49	51,980	8,800	4.1	9,000	1,400	272	33	8	398	50	153	403	129	34,547	4	49
	23,146,279	3,487,931	4.5	4,012,000	543,700	52,588	76	4,763	101,189	42	263	80,574	287	13,934,330		

* From 1930 Chilton Trade List. *† From Chilton Wholesale List, as of November, 1930.
† Figures from American Petroleum Institute.

You can use the wealth of statistics in this volume in reorganizing your business, planning sales tactics and advertising campaigns.

It is significant from the standpoint of sales possibilities to know that registration of vehicles in 1929 brought an 8 per cent increase—there are 1,650,000 more cars and 260,000 more trucks which will need parts, supplies and equipment.

Sales of new cars per dealer averaged 76 in 1929, and this average is steadily increasing year by year, showing the better position of the dealer. There are more dealers (2.7% more) but total car sales increased 20.6%, so each dealer has more possible business.

Service stations increased by 6.9 per cent but the increase in car registration ran the average car-per-shop up 3.9 per cent despite the greater number of shops seeking business. There are now 10 more cars per shop than a year ago.

Digitized by Google

PRODUCTION RECORDS

Giving Here for Permanent Reference the Current and Historical Production Records of the Industry. Trends are Indicated by Some of the Special Tabulations

Motor Vehicle Production

(United States and Canada)

Year	PASSENGER CARS		MOTOR TRUCKS	
	Number*	Value, Wholesale	Number†	Value, Wholesale
1913	461,500	$399,902,000	23,500	$44,000,000
1914	543,679	413,859,379	25,375	45,098,464
1915	895,930	565,978,950	74,000	125,800,000
1916	1,525,578	921,378,000	92,130	161,000,000
1917	1,745,792	1,053,505,781	128,157	220,982,668
1918	943,436	801,937,925	227,250	434,168,992
1919	1,657,652	1,461,785,925	275,943	423,326,621
1920	1,905,560	1,809,170,963	321,789	423,249,410
1921	1,529,165	1,095,883,000	153,200	165,783,550
1922	2,397,827	1,571,659,041	248,402	221,453,667
1923	3,780,358	2,282,953,822	400,092	309,079,606
1924	3,327,770	2,049,101,671	410,016	318,311,344
1925	3,908,304	2,555,419,483	518,915	459,744,079
1926	3,984,218	2,758,446,322	521,643	456,371,169
1927	3,092,783	2,269,056,222	486,970	431,649,521
1928	4,024,590	2,708,954,674	576,540	453,844,206
1929	4,811,107*	2,921,000,000	810,548†	534,000,000

* Includes passenger car chassis which go into use as commercial vehicles. In 1929 this number was approximately 80,000.

† Does not include passenger car chassis which go into use as commercial vehicles. In 1929 this number was approximately 80,000. See page opposite for analysis of 1929 truck production.

Car and Truck Production in United States by Months

	CARS		TRUCKS	
	1929	1930	1929	1930
January	364,773	245,573	57,765	40,189
February	431,755	310,504	65,950	51,984
March	546,489	354,274	79,587	67,769
April	571,956	396,350	91,955	70,945
May	541,310	384,287	94,940	57,791
June	469,260	301,898	98,164	48,669
July	439,598	231,256	78,703	41,296
August	452,857	194,234	59,985	38,606
September	375,046	186,579	54,683	44,309
October	328,305	137,700[1]	66,235	32,300[1]
November	176,629	.....	50,365	.....
December	96,920	.....	28,579	.....
Total	4,794,898	2,742,655[1]	826,811	493,858[1]

[1]Estimated.

Approximate Percentage of 1930 Car Production Unequipped

Trunks	98%	Radiator Shutters	84%
Clocks	96%	Spring Covers	40%
Wind Deflectors	91%	Engine Thermometers	51%
Cigar Lighters	85%	Tire Locks	20%

A smaller percentage of 1930 cars than 1929 cars are originally equipped with clocks and engine thermometers so the market for these is proportionately greater.

Passenger Car Production by Number of Cylinders—U. S.

Number of Cylinders	1926		1927		1928		1929	
	Number of Cars	%	Number of Cars	%	Number of Cars	%	Number of Cars	%
4	2,444,264	64.0	1,464,461	49.7	1,860,048	48.6	1,726,354	37.5
6	1,298,515	34.0	1,387,849	47.1	1,798,813	47.0	2,624,058	57.0
8	76,383	2.0	94,291	3.2	168,399	4.4	253,198	5.5
Total	3,819,162	100	2,946,601	100	3,827,260	100	4,603,610	100

Number and Percent of Motor Truck Production by Capacities*

United States and Canada

Capacity	1926		1927		1928		1929	
	Number	%	Number	%	Number	%	Number	%
¾ ton and less	63,100	12.1	78,000	16.0	79,500	13.8	83,449	10.3
1 ton—less than 1½	349,000	66.9	319,900	65.7	317,600	55.1	367,155	45.3
1½ ton—less than 2	45,900	8.8	28,700	5.9	113,500	19.7	288,702	35.6
2 ton—less than 2½	19,300	3.7	27,700	5.7	31,100	5.4	26,345	3.2
2½ ton—less than 3½	17,700	3.4	16,600	3.4	20,300	3.5	29.008	3.6
3½ ton—less than 5	7,800	1.5	4,400	0.9	4,600	0.8	6,264	.8
5 ton and over	8,900	1.7	3,900	0.8	4,100	0.7	1,845	.2
Miscellaneous and Special	9,900	1.9	7,800	1.6	5,800	1.0	7,833	1.0
Total	521,600	100.0	487,000	100.0	576,500	100.0	810,601	100.0

*Based on N.A.C.C. data.

Digitized by Google

Car and Truck Sales In United States by Months

	CARS			TRUCKS	
	1928	1929	1930	1929	1930
January	135,843	227,383	184,393	29,857	30,241
February	165,256	243,429	219,052	32,565	31,882
March	254,723	391,416	309,283	46,348	42,182
April	332,056	498,559	369,561	56,278	47,032
May	351,332	469,870	357,107	52,875	43,245
June	317,032	399,966	266,991	45,075	33,512
July	324,021	447,771	262,991	57,946	39,888
August	329,827	390,040	210,867	52,540	33,758
September	271,777	315,011	181,421	46,561	33,933
October	284,656	298,858	170,000*	49,885	36,700*
November	212,062	190,043	.....	33,634	.....
December	154,601	143,587	.....	23,271	.....
Total	3,133,186	4,015,933	2,531,666*	526,835	372,373*

*Estimated.

Analysis of 1929 Truck Sales and Production

Domestic truck sales (1)		545,274
Foreign truck sales (2)		343,407
Total truck sales		888,681
Dept. of Commerce truck production (3)	805,047	
N. A. C. C. sales of passenger-car chassis registered as commercial cars	15,000	
Ford sales of passenger-car chassis registered as commercial cars	65,000	
Total vehicles sold as trucks but not included in truck production	80,000	
Actual truck production		885,047
1929 truck inventory decrease		3,634

(1) New truck registrations of 526,834 plus 3½ per cent, generally accepted as the percentage of error.

(2) Includes exports, foreign assemblies and Canadian output.

(3) Result of subtracting N.A.C.C. bus production of 5,502 from Department of Commerce's combined truck and bus output.

Prepared by *Commercial Car Journal and Operation & Maintenance.*

Production of Cars by Body Types

	1927		1928		1929	
Body Type	Number	%	Number	%	Number	%
Touring	250,243	8.1	226,977	5.7	178,782	3.7
Roadster	207,345	6.7	219,050	5.5	322,502	6.7
Coupe	489,116	15.9	778,802	19.4	994,311	20.7
2-door Sedan	.....	...	1,049,226	26.1	1,344,604	28.0
All other closed cars	2,079,501	67.4	1,613,474	40.2	1,868,274	39.1
Chassis	57,155	1.9	124,629	3.1	86,425	1.8
Total	3,083,360	100.0	4,012,158	100.0	4,794,898	100.0

1930-31 Possibilities on Parts and Service for 30 Major Jobs

Based on *Motor World Wholesale* survey of thousands of actual repair orders in several thousand service stations. Covers cars and light trucks, such as Chevrolet, Ford and Dodge. Helpful as a yardstick, as these figures show average.

Jobs Done and Parts Installed Per Month and Per Year for Every 100,000 Registrations

Rear axle assembly jobs	1,145	3,690,000
Axle shafts installed	562	1,775,000
Roller bearings	445	1,435,000
Ball bearings	826	2,660,000
Gears	1,300	4,180,000
Gaskets	877	2,820,000
Rear wheel bearing jobs	185	2,594,000
Roller bearings	195	628,000
Front end jobs	1,730	5,570,000
Ball bearings	249	803,000
Roller bearings	746	2,405,000
Spindle bolts	1,505	4,850,000
Bushings, knuckle	2,630	8,470,000
Tie rod bolts	616	1,990,000
Bushings, tie rod	616	1,990,000
Reline brakes	3,440	11,100,000
Engine jobs	9,450	30,400,000
Valves	4,670	15,050,000
Valve springs	4,430	14,300,000
Head gaskets	9,530	30,700,000
Pistons	4,730	15,600,000
Piston pins	6,720	21,700,000
Piston rings	29,500	93,500,000
Piston pin bushings	1,380	4,400,000
Manifold gaskets	12,300	39,600,000
Miscellaneous gaskets	15,050	48,500,000
Clutch jobs	1,870	6,110,000
Throwout bearings	1,130	3,640,000
Bushings	185	594,000
Gaskets	98	314,000
Facings	3,980	12,850,000
Transmission jobs	249	802,000
Ball bearings	152	488,000
Roller bearings	54	174,000
Gaskets	195	628,000
Gears	660	2,130,000
Spring jobs	985	3,180,000
Springs	1,080	3,480,000
Bolts	432	1,390,000
Bushings	162	523,000
Timing jobs	1,020	3,280,000
Chains	270	871,000
Gears	1,030	3,310,000
Gaskets	876	2,820,000

Repair Shop Men Buy More Small Tools from Wholesalers

A sampling investigation by the publishers of the MULTI-GUIDE, covering all repair shops along 30 miles of a main highway, going through communities of all sizes, showed the average repair shop proprietor owns $626 worth of small tools, bought $164 worth in 1930 and is buying 25 per cent of all his small tools from tool peddlers, hardware stores and chain stores, as compared with 40 per cent purchased from these sources two years ago. This represents a gain of 15 per cent for the wholesaler.

The mechanic, on the other hand, owns $72 worth of small tools, bought $23.50 worth in 1930, and appears to buy about 57 per cent of his tools from peddlers and sources other than automotive wholesalers, as compared with 71 per cent bought from these sources two years ago. This represents a gain for the wholesaler or jobber of about 14 per cent.

On specific items the buying practice of repair shop owners is:

	Jobbers	Peddlers	Other Sources	Unknown Sources
Valve lifters	74%	3%	8%	15%
Reamers	41%	..	*52%	7%
Open-end wrenches	45%	38%	5%	12%
Screw drivers	34%	35%	8%	23%

*Includes special reamers bought from car manufacturers.

Digitized by Google

REGISTRATION RECORDS—

Passenger Car and Motor Truck Registrations, 1929

STATE	NEW CAR REGISTRATIONS			TOTAL CAR REGISTRATION		NEW TRUCK REGISTRATIONS			TOTAL TRUCK REGISTRATIONS (Includes Trucks and Buses)	
	1928	1929	% Gain 28-29	1929	% Gain 1929-28	1928	1929	% Gain 1929-28	1929	% Gain 1929-28
Alabama	36,300	55,900	54	246,640	11	6,500	10,400	60	39,751	20.0
Arizona	12,400	18,600	50	110,743	32	2,100	3,100	53	12,583	59.0
Arkansas	25,900	36,200	40	193,500	6.7	3,300	8,300	115	39,533	7.9
California	200,800	263,900	31	1,745,308	14	17,600	32,000	82	229,033	16.0
Colorado	33,100	40,400	22	273,960	22	3,700	6,200	67	29,529	42.0
Connecticut	47,600	57,900	22	281,800	5.8	6,600	8,300	26	51,080	4.7
Delaware	7,200	9,300	29	44,728	8.6	1,000	1,400	40	9,775	2.4
District of Columbia	18,600	23,800	28	157,639	17	1,600	2,400	50	17,702	10.0
Florida	37,300	39,300	5	284,383	—4.5	3,500	5,500	57	57,975	—3.8
Georgia	35,200	42,400	20	310,362	12	4,100	7,200	76	48,166	19.0
Idaho	13,500	16,600	23	103,838	6.7	2,100	2,700	29	13,688	17.0
Illinois	192,500	244,300	27	1,410,913	7.4	18,600	27,000	45	204,175	7.3
Indiana	96,300	125,200	30	755,161	4.5	10,400	14,500	39	128,703	6.9
Iowa	91,100	111,800	23	715,466	5.9	9,300	11,400	23	68,402	12.0
Kansas	55,900	76,600	37	507,529	7	5,200	13,500	116	73,694	19.0
Kentucky	42,400	54,900	29	294,706	7.7	5,200	6,200	19	34,132	7.4
Louisiana	34,200	44,500	30	234,565	—1.0	3,500	7,200	107	46,303	16
Maine	19,700	23,800	21	148,870	7.6	3,100	5,100	65	31,646	12
Maryland	38,300	48,600	27	276,140	22	5,200	7,200	38	9,303	6.2
Massachusetts	114,900	138,700	21	786,000	18	12,400	18,600	50	100,230	10
Michigan	209,100	262,900	26	1,220,848	13	17,600	26,900	53	176,824	6.9
Minnesota	71,400	92,100	29	620,342	7.2	7,700	11,400	48	100,057	12
Mississippi	30,000	38,300	28	224,000	9.5	3,100	7,200	132	31,000	—0.4
Missouri	98,300	118,000	20	669,320	4.9	10,400	16,600	60	84,756	11
Montana	18,600	22,800	23	115,260	9.3	4,200	4,600	10	25,092	14
Nebraska	55,900	67,300	20	373,086	7.3	5,500	8,300	51	41,513	47
Nevada	3,100	4,700	52	25,219	17	334	967	119	6,604	19
New Hampshire	12,400	14,500	17	89,975	1.4	2,070	2,600	3	19,025	35
New Jersey	114,900	126,300	10	688,334	12	14,500	18,500	28	139,116	16
New Mexico	9,300	12,400	33	75,000	15	1,400	2,200	57	2,750	12
New York	302,000	343,600	14	1,878,300	10	35,200	48,600	38	399,900	3.0
North Carolina	60,000	66,200	10	447,055	1.1	7,200	10,400	44	56,535	28
North Dakota	21,700	24,800	14	162,092	6.5	4,500	4,200	—7	25,954	19
Ohio	223,600	275,300	23	1,538,000	5.3	19,700	27,900	42	200,000	—1.0
Oklahoma	78,700	96,300	22	514,729	—2.2	8,600	13,500	57	60,646	3.2
Oregon	26,900	36,200	35	247,577	7.0	3,100	6,200	100	25,693	12
Pennsylvania	226,700	278,400	23	1,524,799	7.9	25,900	38,300	48	250,124	13
Rhode Island	17,600	21,700	23	112,496	5.5	2,100	3,100	48	22,350	10
South Carolina	24,800	32,000	29	205,683	5.9	3,100	5,200	68	25,591	13
South Dakota	27,900	31,000	11	181,419	5.8	4,100	4,300	5	22,780	11
Tennessee	44,500	56,900	28	324,000	10.0	4,100	6,200	51	34,400	15
Texas	170,800	215,300	26	1,160,869	10.0	20,700	34,200	65	186,719	17
Utah	13,500	18,300	36	97,200	15.0	1,300	3,100	138	17,500	20
Vermont	10,400	12,400	19	84,321	7.3	1,400	2,100	50	8,709	14
Virginia	50,700	62,100	22	328,947	8.2	6,300	10,400	65	61,711	13
Washington	40,400	56,900	41	385,033	11.0	4,600	8,300	80	63,247	5.5
West Virginia	33,100	40,400	22	229,011	6.5	3,600	5,100	42	39,332	8.4
Wisconsin	91,100	107,600	18	689,133	6.6	10,400	14,500	39	105,810	8.9
Wyoming	8,300	9,300	12	51,980	5.5	1,100	1,600	45	8,800	16
U. S. Total	3,248,900	4,016,700	24	23,146,279	8.6	358,804	544,667	52	3,487,931	9.6

Motor Boat Registration

By U. S. Customs Districts to Dec. 31, 1929

Showing the growing market possibilities in these territories for sale of replacement engine parts and service work in this branch of automotive field.

Registration Headquarters	1925	1926	1927	1928	1929
Baltimore, Md	12146	12566	13219	13913	14461
Boston, Mass	11325	11425	11762	12201	12648
Bridgeport, Conn	5427	5981	5757	5867	6057
Buffalo, N. Y	1548	1642	1563	1377	1398
Charleston, S. C	935	997	1042	1093	1155
Chicago, Ill	5922	5708	6032	6302	6614
Cleveland, Ohio	3756	4003	4287	4289	4569
Des Moines, Iowa	2605	2679	2746	2849	2920
Detroit, Mich	8770	9059	10424	11188	12012
Duluth, Minn	1056	1056	1056	1056	1055
Galveston, Tex	1386	1519	1702	1935	2147
Great Falls, Mont	12	12	14	14	15
Honolulu, T. H	622	656	712	764	841
Indianapolis, Ind	920	1018	1103	1240	1377
Juneau, Alaska	3534	3782	3729	4201	3891
Los Angeles, Cal	2494	2776	2974	3215	3425
Louisville, Ky	1670	1898	2039	2187	2287
Memphis, Tenn	4820	3147	3348	3673	3990
Milwaukee, Wis	1808	1878	1997	2069	2093
Minneapolis, Minn	599	650	657	672	693
Mobile, Ala	2629	2813	2998	3231	3367
New Orleans, La	10060	10956	11540	12014	12430
New York, N. Y	26161	27439	28962	30717	32247
Norfolk, Va	10910	11905	12626	13318	13772
Ogdensburg, N. Y	3188	3329	3414	3418	3422
Omaha, Neb	216	236	252	340	396
Pembina, N. Dak	8	14	15	16	20
Philadelphia, Pa	11682	12251	12840	13480	14162
Pittsburgh, Pa	419	472	546	664	739
Port Arthur, Tex	1111	1171	1228	1298	1340
Portland, Me	11363	11809	12233	12563	12840
Portland, Ore	5848	6204	6694	6537	6864
Providence, R. I	3064	2778	2800	2861	2956
Rochester, N. Y	2600	2695	2885	3123	3230
St. Albans, Vt	641	665	543	556	580
St. Louis, Mo	4706	5179	5666	6029	6499
San Antonio, Tex	295	356	409	457	523
San Francisco, Cal	4061	4325	4628	4982	5264
San Juan, P. R	124	150	1161	174	187
Savannah, Ga	1167	1191	1247	1310	1340
Seattle, Wash	5903	6579	6841	7079	7504
Tampa, Fla	15201	16792	18155	19217	20180
Wilmington, N. C	5924	6276	6729	7093	7530

Total	Dec. 31, 1929	241,040
Total	Dec. 31, 1928	230,582
Total	Dec. 31, 1927	219,575
Total	Dec. 31, 1926	208,037
Total	Dec. 31, 1925	198,636
Total	Dec. 31, 1924	186,441
Total	Dec. 31, 1923	173,307
Total	Dec. 31, 1922	159,701
Total	Dec. 31, 1921	148,482
Total	Dec. 31, 1920	130,826
Total	Dec. 31, 1919	110,791
Total	Jun. 30, 1919	91,779

Digitized by Google

CURRENT AND HISTORICAL

Motor Vehicle Registrations, 1918 to 1929

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
Alabama	46,171	58,898	74,637	82,343	90,052	126,642	157,262	194,580	225,651	243,539	255,850	286,391
Arizona	23,905	28,979	34,559	35,049	38,034	48,741	57,828	68,029	73,574	74,527	91,800	123,326
Arkansas	41,458	49,450	59,082	67,446	86,425	111,946	141,983	183,764	209,419	206,568	214,960	233,033
California	364,800	477,450	568,892	673,830	861,805	1,100,283	1,321,480	1,439,463	1,600,475	1,699,955	1,727,024	1,974,341
Colorado	83,244	104,865	127,549	145,739	162,328	189,356	213,247	240,097	252,787	268,026	245,260	303,489
Connecticut	92,605	109,651	119,134	137,526	154,675	177,931	214,318	248,474	260,911	282,892	315,234	332,880
Delaware	12,955	16,152	18,300	21,413	24,560	29,977	35,136	40,681	44,418	46,707	51,210	54,503
Dist. of Col.	30,490	35,400	39,712	61,745	85,425	103,171	80,720	93,612	129,792	126,136	150,915	175,341
Florida	54,186	55,400	73,914	97,837	115,891	160,000	194,196	260,720	416,930	391,168	358,063	342,358
Georgia	99,800	127,326	144,422	131,942	145,584	173,794	209,300	244,871	274,037	296,567	318,180	358,528
Idaho	32,289	42,220	50,873	51,264	53,874	62,379	69,225	81,484	95,861	103,000	108,931	117,526
Illinois	389,620	478,438	568,759	670,434	786,190	969,331	1,123,724	1,263,177	1,370,503	1,438,985	1,504,359	1,615,088
Indiana	227,160	277,255	332,707	400,342	469,939	353,342	650,219	725,410	772,215	813,496	843,092	883,864
Iowa	278,313	363,857	437,300	460,528	500,148	576,398	620,906	657,567	689,036	706,829	736,666	783,868
Kansas	189,163	227,752	265,396	291,309	327,194	375,594	410,891	457,033	491,276	501,901	536,262	581,223
Kentucky	65,870	90,641	112,685	126,371	154,021	198,347	231,784	260,754	278,337	285,099	305,291	328,838
Louisiana	40,000	51,000	66,000	80,500	102,284	138,500	178,000	207,000	239,500	255,000	277,000	280,868
Maine	40,372	53,425	62,907	77,527	92,539	108,609	127,178	140,134	150,916	164,250	166,621	180,516
Maryland	74,666	95,634	116,341	140,572	165,624	209,938	195,581	230,684	249,056	284,267	234,849	285,443
Massachusetts	193,497	247,183	304,631	360,732	385,231	566,150	572,315	654,338	689,593	696,107	757,720	886,230
Michigan	262,125	325,813	412,717	477,037	578,980	730,658	868,587	990,709	1,118,785	1,156,344	1,248,080	1,397,672
Minnesota	204,458	259,743	309,569	328,700	380,557	448,187	502,987	569,694	624,478	640,102	668,155	720,399
Mississippi	48,400	45,030	63,484	65,139	77,001	104,400	134,547	177,262	210,500	227,103	235,826	255,000
Missouri	188,040	244,363	296,919	346,437	392,969	476,373	544,635	602,900	651,350	678,564	714,437	754,376
Montana	51,037	59,325	60,646	58,785	62,649	73,828	79,695	94,656	103,946	112,756	127,442	140,352
Nebraska	175,409	192,000	223,000	238,704	256,654	286,053	308,713	338,718	367,838	373,912	375,972	414,599
Nevada	8,159	9,305	10,464	10,819	12,647	15,700	18,387	21,185	24,014	25,851	27,134	31,823
New Hampshire	24,817	31,625	34,680	42,039	48,293	59,571	71,929	81,250	89,001	96,000	102,750	109,000
New Jersey	155,519	190,873	227,737	272,994	341,626	430,958	504,190	579,886	650,891	712,402	754,841	827,450
New Mexico	15,000	18,077	22,109	24,703	25,473	31,737	41,750	49,101	54,341	60,000	67,643	77,750
New York	463,758	571,662	669,290	812,031	1,002,293	1,214,642	1,412,879	1,613,141	1,815,437	1,900,866	2,093,792	2,278,200
North Carolina	72,313	109,017	140,860	148,684	182,550	247,612	305,756	351,767	385,763	422,544	486,000	503,590
North Dakota	71,627	82,885	90,840	92,644	99,052	109,244	117,061	144,956	157,822	160,696	173,944	188,046
Ohio	412,775	511,031	615,397	720,632	859,504	1,068,700	1,244,000	1,305,000	1,510,000	1,570,418	1,662,000	1,738,000
Oklahoma	121,500	144,500	204,300	221,300	249,659	307,000	342,982	438,000	510,000	644,450	585,346	575,737
Oregon	63,324	83,332	103,790	118,325	134,299	166,412	192,629	216,324	234,134	246,623	254,415	273,270
Pennsylvania	394,186	482,117	570,164	689,589	829,737	1,064,624	1,228,586	1,317,053	1,463,261	1,568,617	1,642,866	1,774,923
Rhode Island	36,218	44,833	50,375	54,957	66,466	85,480	90,652	102,476	109,145	119,335	126,918	134,846
South Carolina	55,492	70,143	93,843	90,546	95,978	128,656	163,382	170,658	180,967	199,794	216,964	231,274
South Dakota	90,521	104,628	120,395	119,274	125,238	131,720	142,280	168,118	168,230	170,592	191,900	204,199
Tennessee	63,000	80,422	101,852	117,025	135,716	173,365	204,680	248,021	279,639	295,530	325,406	358,400
Texas	251,118	331,310	427,693	467,616	526,238	688,899	834,040	968,406	1,047,202	1,110,986	1,213,224	1,347,588
Utah	32,273	35,236	42,578	47,523	49,156	66,025	69,227	72,490	81,633	78,976	98,541	114,700
Vermont	22,655	26,807	31,625	36,965	43,881	52,776	61,179	69,576	73,871	79,510	86,231	93,030
Virginia	72,228	94,120	134,000	141,000	169,000	219,092	261,643	281,100	320,367	335,275	358,633	390,658
Washington	117,278	148,775	173,920	185,359	220,957	261,224	294,812	332,442	367,093	389,409	408,156	448,280
West Virginia	38,750	50,203	78,862	93,894	112,763	162,191	190,134	217,069	221,001	241,042	251,419	268,333
Wisconsin	196,844	236,981	293,298	341,841	388,044	457,271	525,221	596,373	662,328	698,944	743,815	794,943
Wyoming	16,200	21,371	23,926	26,619	30,637	39,831	43,639	47,712	49,633	52,222	56,867	60,780
Totals	6.105,588	7,596,503	9,206,141	10,505,630	12,299,770	15,312,658	17,605,495	19,857,915	22,046,957	23,253,882	24,501,004	26,634,210

Motor Truck Sales by Makes

Truck Make	1929 Position	1929 Total Sales	1928 Position	1928 Total Sales	1929 % Gain
Ford	1	223,405	2	65,260	242
Chevrolet	2	160,892	1	133,795	20
Int. Harv.	3	31,434	4	26,159	20
Dodge	4	28,567	3	36,570	—22
G.M.C.	5	14,248	5	17,560	—18
Reo	6	12,894	6	16,325	—21
Mack	7	6,823	7	6,890	—.9
White	8	6,121	8	6,260	— 2
Brockway	9	4,533	9	3,645	24
Diamond T	10	3 590	12	2,308	55
Autocar	11	2,941	11	2,348	25
Federal	12	2,853	10	3,118	— 8
Stewart	13	2,163	13	1,964	10
Sterling	14	1,577	14	1,041	51
All others	..	24,793	..	18,108	36
Total	..	526,834	..	341,297	54

Truck Fleet Operating Costs

The average operating experience of 5584 fleet owners having a total of 46,017 vehicles was found to be as follows:

	Average for 26,656 Light Duty Trucks	Average for 14,504 Medium Duty Trucks	Average for 4857 Heavy Duty Trucks
How many miles per gallon of gas?	13.0 miles	9.8 miles	5.7 miles
How many miles per quart of oil?	109.2 miles	95.2 miles	56.7 miles
What is average payload	2396.0 lbs.	5230.0 lbs.	11,256.0 lbs.
Average length of haul or route?	29.8 miles	41.4 miles	38.9 miles
Average number of stops per day?	43.5 stops	26.5 stops	17.3 stops
What is your total truck operating cost including maintenance and depreciation per mile?	11.6 cents	17.1 cents	28.8 cents

From a survey made between September, 1929, and April, 1930, by General Motors Truck Co.

Digitized by Google

Design Trends That Affect Business Opportunities

Use of double breaker arms in ignition system means more adequate synchronizing equipment and double the number of units required for replacement.

Use of two-shoe type brakes is increasing. With internal brakes and the practice of leaving very small clearance between lining and drum, the service shop should be equipped with cutaway drums accurately to establish the clearance in performing a relining job.

Many cars are now using four rings per piston instead of three. One make has five as standard equipment.

Number of *models* utilizing gear drive shows decrease of nearly 5 per cent in 1930 over 1929—actual *number* of cars using gears increased about 12 per cent in 1929—due to increase in Ford and Chevrolet. Gear-driven camshaft cars represent about 65 per cent of total production in 1929.

Measured only by number of makes and models fitted with this or that, the market possibilities would seem to be less on equipment sales. But the increase in car production has been more or less localized in cars listing under $1,000, and these are the ones usually equipped with the fewest items at the factory.

Current Trends in Motor Truck Design

Service brakes on all four wheels of motor trucks show the same upward trend as on passenger cars, going from about 7 per cent in 1928 to 69 per cent in 1930 on trucks of 1½ tons or less.

	1928	1929	1930
Four-Wheel Service Brakes			
1½ tons or less	7%	55%	69.4%
Over 1½ tons	5%	23%	47.7%
Six Cylinder Engines	34%	49%	63%
Single-Plate Clutch			
1½ tons or less	26.5%	35.5%	41.5%
Over 1½ tons	12.5%	15.5%	19%
Bevel Final Drive			
1½ tons or less	73%	79%	85%
Over 1½ tons	12½	18%	25%

Demand for These Items Likely to Continue Upward

Molded Brake Lining
Self-Energizing Brakes
Fuel Pumps
Vacuum Boosters for Fuel
Multiple Cylinders (more parts)
Dual-Breaker, Dual-Ignition Control (Doubles Ignition Coils, Contact Points, Condensers)
Ignition Cable Conduits
Aluminum Alloy Con. Rods
Steel-Backed Main Bearings
Steel-Backed Camshaft Bearings
Steering Shock Eliminating and Anti-Shimmy Spring-Loaded Shackles
Spring Covers
Laminated Metal Covers for Springs Packed With Lubricant
Stainless Steel for Exposed Bolts, Nuts, etc.
Dash-Type Oil-Level Gages
Oil Coolers
Clocks
Demountable Wheels (Fender Wells)
Trunk Racks
Air Intake Stoves
Trunks
Radiator Shutters
Radiator Grills or False Fronts
Electric Water Heaters
Dash Starter Buttons
Ornamental Radiator Caps
Dash Oil-Heat Indicators
Seat Adjusters for Passenger as Well as Driver
Cowl Ventilators
Awings and Ventilators for Windows
Crank-Operated Rear Windows
Convertible Tops
Separate Parking Lights
Three-Spoke Steering Wheels
Treadle-Type Accelerator Pedal
Tandem or Full-Width Windshield Wipers
Non-Glare Rear-View Mirrors
Radio for Car Installation
Shatter Proof Glass

Major Automotive Sales Through Independent Retailers

In its market survey in the nine cities of Atlanta, Baltimore, Chicago, Denver, Seattle, Syracuse, Kansas City, Providence and San Francisco, the U. S. Bureau of Foreign and Domestic Commerce secured comparative data on the business of group-operated or chain automotive stores and independent or unit operated.

COMPARATIVE TRADE OF AUTOMOTIVE RETAIL STORES

AUTOMOBILE DEALERS

	Number of Establishments	Sales	Inventory	Number Employees	Salaries and Wages
Totals (Actual Figures)	1,003	291,309,600	28,186,100	12,389	23,755,300
Unit Operated...	74.1%	67.6%	70.8%	70.1%	69.3%
Group Operated.	25.9%	32.4%	29.2%	29.9%	30.7%

AUTOMOBILE ACCESSORIES

Unit Operated...	92.0%	81.2%	81.8%	81.4%	80.2%
Group Operated.	8.0%	18.8%	18.2%	18.6%	19.8%
Totals (Actual Figures)	2,069	$62,217,000	$9,481,300	4,632	$7,418,300

Sources of New Automobile Dealerships in United States

45.0% organized by automobile salesmen, sales managers, etc., who were employed by other dealers.

19.9% organized by proprietors of garages or repair shops.

5.3% organized by former employees of automobile, parts and accessory manufacturers.

2.9% organized by men formerly employed in garages as mechanics or bookkeepers.

2.3% organized by accessory store proprietors.

1.6% organized by men formerly employed by automotive wholesale houses as salesmen or executives.

77.0% of new dealers were formerly in automotive environment, as shown above.

The remaining 23% of new car dealers were recruited from other fields. Of these—

18% Bankers
13% Mercantile Dealers
10% Finance
5% Flour and Feed
5% Salesmen

49% were Lumber Mill, Taxi Business, Hardware, Mining Engineer, Forestry Service, Radio Store, Accountant, Bookkeeper, Farmer, Contractor, Resort Operator, Sheriff, Public Utility, Commissary Manager, Insurance, Sheet Metal Business, Wholesale Gas and Oil, Filling Station Operator.

Cities Having 100,000 or More Motor Vehicles 1929

Baltimore, Md.
Boston, Mass.
Buffalo, N. Y.
Chicago, Ill.
Cincinnati, Ohio
Cleveland, Ohio
Detroit, Mich.
Indianapolis, Ind.
Kansas City, Mo.
Los Angeles, Cal.
Milwaukee, Wis.
Minneapolis, Minn.
Newark, N. J.
New York, N. Y.
Philadelphia, Pa.
Pittsburgh, Pa.
San Francisco, Cal.
St. Louis, Mo.
Toledo, Ohio
Washington, D. C.

Digitized by Google

TOOLS and SHOP EQUIPMENT Needed

To Be Well Equipped as Small, Medium or Large Repair Shop—Also for Specialized Service

BASED ON DATA COMPILED BY *Automobile Trade Journal and Motor Age—1930*

GUIDE TO TYPE OF SERVICE SHOP

1. **Small General Repair Shop**
2. **Medium General Repair Shop**
3. **Large General Repair Shop**
4. **Electrical and Battery Dept.**
5. **Brake Service Dept.**
6. **Axle and Wheel Aligning Dept.**
7. **Lubricating Dept.**
8. **Washing and Polishing Dept.**

Tools Needed	TYPE OF SHOP (Identify Numerals Above)							
	1	2	3	4	5	6	7	8
Air Compressor	x	x	x	x	x	x	x	x
Air Dispenser	x	x	x	x	x	x	x	x
Garage Jack	x	x	x	x	x	x	x	x
Floor Brushes	x	x	x	x	x	x	x	x
Waste Cans	x	x	x	x	x	x	x	x
Repair Card Holder	x	x	x	x	x	x	x	x
Seat Covers	x	x	x	x	x	x	x	x
Fire Extinguishers	x	x	x	x	x	x	x	x
Adjustable Wrenches	x	x	x	x	x	x	x	x
Socket Wrench Set	x	x	x	x	x	x	x	x
Open End Wrenches	x	x	x	x	x	x	x	x
Tire Pressure Gages	x	x	x	x	x	x	x	x
Hammers	x	x	x	x	x	x	x	x
Screw Drivers	x	x	x	x	x	x	x	x
Pliers	x	x	x	x	x	x	x	x
Putty Knives	x	x	x	x	x	x	x	x
Creepers	x	x	x	x	x	x	x	..
Fender Covers	x	x	x	x	x	x	x	...
Door Covers	x	x	x	x	x	x	x	...
Work Bench	x	x	x	x	x	x	x	..
Thread Pitch Gage	x	x	x	x	x	x	x	..
Thread Chaser	x	x	x	x	x	x	x	...
Screw Extractor	x	x	x	x	x	x	x	...
Pipe Taps	x	x	x	x	x	x	x	...
Vises	x	x	x	x	x	x	x	...
Drifts	x	x	x	x	x	x	x	...
Cold Chisels	x	x	x	x	x	x	x	...
Soft Hammer	x	x	x	x	x	x	x	..
Pipe Wrench	x	x	x	x	x	x	x	..
Tool Boxes	x	x	x	x	x	x	x	..
Cotter Key Pullers	x	x	x	x	x	x	x	...
Hand Oil Cans	x	x	x	x	x	x	x	...
Rack, Lift or Pit	x	x	x	...	x	x	x	x
Portable Light	...	x	x	x	x	x	x	x
Stud Bolt Wrench	x	x	x	x	x	x	...	...
Bolt Cutters	x	x	x	x	x	x	...	...
Taper Reamers	x	x	x	x	x	x	...	...
Expanding Reamers	x	x	x	x	x	x	...	...
Adjustable Reamers	x	x	x	x	x	x	...	..
Tap and Die Sets	x	x	x	x	x	x	...	..
Wire Gage	x	x	x	x	x	x	...	..
Calipers, Inside and Outside	x	x	x	x	x	x	...	...
Dividers	x	x	x	x	x	x	...	...
Dial Gage Outfit	x	x	x	x	x	x	...	...
Bushing Puller	x	x	x	x	x	x	...	..
Bearing Puller	x	x	x	x	x	x	...	..
Gasket Cutter	x	x	x	x	x	x	...	..
C Clamps	x	x	x	x	x	x	...	..
Jacks	x	x	x	x	x	x	...	..
Breast Drill	x	x	x	x	x	x	...	..
Bench Grinder	x	x	x	x	x	x	...	..
Emery Wheel Dresser	x	x	x	x	x	x	...	..
Bench Arbor Press	x	x	x	x	x	x	...	..
Center Punches	x	x	x	x	x	x	...	..
Hack Saws	x	x	x	x	x	x	...	..
Files	x	x	x	x	x	x	...	..
Metal Shears	x	x	x	x	x	x	...	..
Drill Sets	x	x	x	x	x	x	...	..
Steel Rule	x	x	x	x	x	x	...	..
Feelers Gages	x	x	x	x	x	x	...	..

Tools Needed	TYPE OF SHOP (Identify Numerals Above)							
	1	2	3	4	5	6	7	8
Scissors	x	x	x	x	x	x	...	...
Hand Drill	x	x	x	x	x	x	...	...
File Cleaner	x	x	x	x	x	x	...	...
Hub Cap Wrenches	x	x	x	...	x	x	x	...
Display Cases	x	x	x	x	...	x	x	...
Pedal Depressor	x	x	x	x	x	...	...	x
Spray Guns for Penetrating Oil	x	x	x	...	x	x	x	...
Micrometers, Inside and Outside	x	x	x	x	x	...	...	...
Spring Scale	x	x	x	x	x	...	...	...
Blow Torch	x	x	x	x	x	...	...	...
Steel Bins	x	x	x	x	x	...	...	...
Cleaning Tank	x	x	x	x	x	...	...	...
Sledge Hammer	x	x	x	...	x	x	...	...
Steel Tape	x	x	x	...	x	x	...	...
Bushing Pusher	x	x	x	...	x	x	...	...
Wheel Puller	x	x	x	...	x	x	...	...
Engine Cleaner	x	x	x	x	...	...	...	x
Tubing Flaring Tools	x	x	x	...	x	...	x	...
Tire Changing Equip.	x	x	x	...	x	x	...	...
Radiator Filling Cans	x	x	x	...	...	...	x	x
Car Horses	x	x	x	...	x	x	...	...
Electric Drill, Medium	x	...	x	x	x	x	...	...
Funnels	x	x	x	...	x	...	x	...
Surface Plate	x	x	x	x	...	...	...	...
Vee Blocks	x	x	x	x	...	...	...	...
Speed Indicators	x	x	x	x	...	...	...	...
Head Light Testing Equipment	x	x	x	x	...	...	...	...
Gear Puller	x	x	x	x	...	...	...	...
Wire Terminal Tools	x	x	x	x	...	...	...	...
Soldering Iron	x	x	x	x	...	...	...	...
Hole Saw	x	x	x	x	...	...	...	...
Glass Cutters	x	x	x	x	...	...	...	...
Engine Testing Equip.	x	x	x	x	...	...	...	...
Spark Plug Cleaners	x	x	x	x	...	...	...	...
Electrical Test Light	x	x	x	x	...	...	...	...
Spark Plug Tester	x	x	x	x	...	...	...	...
Battery Discharge Set	x	x	x	x	...	...	...	...
Battery Carriers	x	x	x	x	...	...	...	...
Battery Fillers	x	x	x	x	...	...	...	...
Steel Stamps	x	x	x	x	...	...	...	...
Hydrometers	x	x	x	x	...	...	...	...
Bearing Scrapers	x	x	x	x	...	...	...	...
Breaker Point Synchronizing Tools	x	x	x	x	...	...	...	...
Point File or Stone	x	x	x	x	...	...	...	...
Protractor	x	x	x	...	...	x	...	...
Steel Square	x	x	x	...	...	x	...	...
Spirit Level	x	x	x	...	...	x	...	...
Surface Gage	x	x	x	...	...	x	...	...
Decelerometer	x	x	x	...	x	...	...	...
Spring Bushing Jack	x	x	x	...	...	x	...	...
Step Ladder	x	x	x	...	...	...	...	x
Toe-in Gages	x	x	x	...	...	x	...	...
Oil Measures	x	x	x	...	...	...	x	...
Pry Bars	x	x	x	...	...	...	x	...
Upholstery Brushes	x	x	x	...	...	...	x	...
Whisk Brooms	x	x	x	...	...	...	x	...

Tools Needed	TYPE OF SHOP (Identify Numerals Above)							
	1	2	3	4	5	6	7	8
Buckets	x	x	x	...	...	...	x	...
Body and Fender Tools	x	x	x	...	...	...	...	...
Straight Reamers	x	x	x	...	...	...	...	...
Weighing Scale	x	x	x	...	...	...	...	...
Cylinder Head Lifting Hook	x	x	x	...	...	...	...	...
Tire Tube Testing Equip.	x	x	x	...	...	...	...	...
Tire Tube Repair Equip.	x	x	x	...	...	...	...	...
Wood Saws	x	x	x	...	...	...	...	...
Wood Planes	x	x	x	...	...	...	...	...
Wood Chisels	x	x	x	...	...	...	...	...
Brace and Wood Bits	x	x	x	...	...	...	...	...
Chain Hoists	x	x	x	...	...	...	...	...
Towing and Wrecking Equipment	x	x	x	...	...	...	...	...
Radiator Flushers	x	x	x	...	...	...	...	...
Connecting Rod Aligner	x	x	x	...	...	...	...	...
Crank Pin Reconditioner	x	x	x	...	...	...	...	...
Bearing Testing Equip.	x	x	x	...	...	...	...	...
Piston Pin Inserter	x	x	x	...	...	...	...	...
Piston Vise	x	x	x	...	...	...	...	...
Piston Ring Compressor	x	x	x	...	...	...	...	...
Piston Ring Groove Cleaner	x	x	x	...	...	...	...	...
Piston Ring Remover	x	x	x	...	...	...	...	...
Piston Pin Hole Reconditioner	x	x	x	...	...	...	...	...
Valve Seat Tester	x	x	x	...	...	...	...	...
Carbon Brushes	x	x	x	...	...	...	...	...
Valve Spring Compressor	x	x	x	...	...	...	...	...
Valve Seat Reconditioner	x	x	x	...	...	...	...	...
Valve Refacer	x	x	x	...	...	...	...	...
Anti-Freeze Hydrometer	x	x	x	...	...	...	...	...
Skid Chain Tools	x	x	x	...	...	...	...	...
Valve Lifter	x	x	x	...	...	...	...	...
Spanner Wrench	x	x	x	...	...	...	...	...
Box End Wrenches	x	x	x	...	...	...	...	...
Carbon Scrapers	x	x	x	...	...	...	...	...
Valve Keeper Tool	x	x	x	...	...	...	...	...
Valve Lapper	x	x	x	...	...	...	...	...
Paint Spray Gun	...	x	x	...	...	...	...	x
Electric Drill, Small	...	x	x	x	...	...	...	...
Floor Arbor Press	...	x	x	...	...	x	...	...
Electric Drill, Large	...	x	x	...	...	...	...	...
Drill Press	...	x	x	...	...	...	...	...
Portable Grinder and Buffer	...	x	x	...	...	...	...	...
Floor Grinder	...	x	x	...	...	...	...	...
Welding Outfit	...	x	x	...	...	...	...	...
Transmission Dolly	...	x	x	...	...	...	...	...
Rear Axle Stand	...	x	x	...	...	...	...	...
Engine Stand	...	x	x	...	...	...	...	...
Connecting Rod Bearing Reconditioner	...	x	x	...	...	...	...	...
Cylinder Reconditioner	...	x	x	...	...	...	...	...
Valve Seat Renewer	...	x	x	...	...	...	...	...
Portable Sander and Polisher	...	...	x	...	...	...	...	x
Lathe and Equipment	...	...	x	x	...	...	...	...
Rubber Aprons	...	...	...	x	...	...	...	x

Additional Tools—Each Needed by Only One of the Eight Service Shop Classifications Given Here

3. **Large General Repair Shop:** Anvil, Forge, Blacksmith Tools, Trimmers' Kit, Trolleys, Power Saw.

4. **Electrical and Battery Department:** Volt-Ammeter with Shunt, Remagnetizer, Growler, Generator Vise, Mica Undercutter, Distributor and Magneto Tester, Electric Test Stand, Battery Charger, Acid Funnels, Battery Post Drills, Battery Terminal Pullers, Acid Syringe, Rubber Gloves, Fire Pot, Hand Reamer, Correction Thermometer, Battery Compound Pot, Lead Pot, Lead Ladle, Lead Scraper, Battery-Plate Burning Racks, Battery-Plate Separator Trimmer, Battery-Plate Press, Plate Press Separators, Battery-Post Builder Set, Battery-Post Reducer Set, Lead Molds, Battery Compound Remover, Battery-Plate Group Puller, Lead Burning Equipment, Battery Brushes, Battery Connectors, Battery Pliers.

5. **Brake Service Department:** Brake-Shoe Clearance Gages, Brake Lining Drill, Brake Lining Riveter, Brake Lining Cutter, Brake Lining Clamps, Brake Band Rounding Tool, Hydraulic Brake Bleeder, Hydraulic Brake Cylinder Reconditioner, Brake Wrench Sets, Brake Testing Equipment, Brake Drum Reconditioner.

6. **Axle and Wheel Aligning Department:** Wheel Aligning Instruments, Axle Bending Equipment, Wheel Service Equipment.

7. **Lubricating Department:** Spring Leaf Spreader, Hand Oil Guns, Gear Case Flushers, Lubricating Outfit for Transmissions and Differentials, Hand Lubricating Gun for Pressure Fittings, Lubricating Outfit for Pressure Fittings, Drain Plug Wrenches.

8. **Washing and Polishing Department:** Power Car Washer, Soap Mixer, Chamois, Sponges, Vacuum Cleaners, Rubber Boots, Wringer, Rubber Hose, Fender Brushes, Wheel Brushes, Barrels.

Digitized by Google

TOOLS and SHOP EQUIPMENT Needed

To Handle 21 Most-Frequently-Performed Flat-Rate Repair and Service Operations

You Can Check the Tools Required for Each Operation and Also the Number of Different Operations for Which Each Tool Can Be Used

BASED ON DATA COMPILED BY *Automobile Trade Journal and Motor Age—1930*

LIST OF FLAT-RATE OPERATIONS TAKEN FROM *Chilton Flat-Rate Book*

GUIDE TO FLAT RATE OPERATIONS

1. Adjust service brakes
2. Grind valves, clean carbon, tune engine
3. Complete lubrication
4. Tune engine
5. Reline brakes
6. Adjust steering gear
7. Repack water pump
8. Install fan belt
9. Install pins, rings, adjust rod bearings
10. Renew front axle bushings and pins
11. Install timing chain or gear
12. Check and correct steering geometry
13. Adjust shackle bolts
14. Overhaul clutch
15. Overhaul generator
16. Repair fender
17. Tighten body bolts
18. Overhaul differential
19. Renew all spring bolts
20. Test battery and recharge
21. Wash and polish car

Tools Needed	FLAT RATE OPERATIONS (For Guide to Numerals See Above) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Socket Wrench Sets	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..
Open End Wrench Sets	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..
Adjustable Wrenches	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..
Stillson Wrenches	x	x	x	x	x	x	..	..	x	x	x	x	x	x	x	x	x	x	x	x	..
Hammers	x	x	x	..	x	x	..	x	x	x	x	x	x	x	x	x	x	x	x	x	..
Screw Drivers	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..
Pliers	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..
Chisels	x	x	..	..	x	..	..	x	x	x	x	x	x	x	x	x	x	x	x	..	..
Center Punches	..	x	..	..	x	x	..	..	x	x	x	x	..	x	x	x	..	x	x	..	..
Drifts	x	x	..	..	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..	..
Files	x	x	..	x	x	x	x	x	x	x	x	x	..	x	x	x	x	x	x	x	..
Abrasive Paper and Cloth	x	x	..	x	x	x	x	..	x	x	x	x	..	x	x	x	..	x	x	x	..
Screw Extractor Set	x	x	x	x	x	x	x	x	x	..	x	..	..	x	x	x	x	x	x	..	..
Cotter Pin Puller	x	x	..	..	x	x	x	..	x	x	x	x	x	x	x	..	x	x	x	..	..
Thread Chasers	x	..	x	..	x	..	..	..	..	x	..	x	..	x	..	x	..	x	x	..	..
Hub Cap Wrenches	x	..	x	..	x	..	..	..	..	x	..	x	..	x	..	x	..	x	x	..	..
Electric Drill	x	x	..	..	x	x	..	..	x	x	x	x	..	x	x	x	..	x	x	x	..
Putty Knife	x	x	..	..	x	x	x	..	x	x	x	x	x	x	x	x	..	x	x	x	..
Drill Set	x	x	..	..	x	x	..	..	x	x	x	x	..	x	x	x	x	x	x	x	..
Tap and Die Set	x	x	..	x	x	x	x	x	x	x	x	x	..	x	x	x	x	x	x	x	..
Reamer Sets	..	x	..	..	x	..	..	..	x	x	x	x	..	x	..	..	..	x	x	..	..
Dial Gage	..	..	..	..	x	..	..	..	x	..	x	..	..	x	x	..	..	x	..	..	..
Feeler Gages	x	x	..	x	x	..	..	..	x	x	x	x	x	x	x	..	..	x	x	..	..
Micrometer Calipers	..	..	..	..	..	..	..	..	x	x	..	x	..	..	x	..	..	x	x	..	..
Surface Plate	..	..	..	..	..	..	..	..	x	x	..	..	..	x	..	..	..	x	..	..	..
Bushing Pullers	..	x	..	..	..	..	..	..	x	x	x	x	..	x	..	..	..	x	x	..	..
Gear Pullers	..	..	..	..	..	..	..	..	..	..	x	..	..	x	x	..	..	x	..	..	..
Wheel Pullers	x	..	x	..	x	..	..	..	..	x	..	x	..	x	..	x	..	x	x	..	..
Hack Saw	x	x	..	..	x	..	..	..	x	x	x	x	..	x	x	x	x	x	x	x	..
Bench Arbor Press	..	..	..	..	..	..	..	..	x	x	..	x	..	x	..	..	..	x	..	..	..
Vise	x	x	..	..	x	..	..	..	x	x	x	x	..	x	x	x	..	x	..	..	..
Work Bench	x	x	..	..	x	..	..	..	x	x	x	x	..	x	x	x	..	x	..	..	..
Creepers	x	..	x	..	x	x	..	..	x	x	x	x	x	x	x	x	x	x	x	..	..
Drop Lights	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..
Fender Covers	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	..	..
Seat Covers	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Repair Card Holders	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Waste Cans	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Chain Hoists	..	..	..	..	..	..	..	..	x	x	..	..	..	x	..	..	..	x	x	..	..
Radiator Filling Cans	..	x	..	..	..	..	x	x	x	..	x	..	..	..	x	..	..	..	..	..	..
Jacks	x	..	..	..	x	..	..	..	x	x	x	x	x	x	x	x	x	x	x	x	x
Garage Jacks	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Horses	x	..	..	..	x	x	..	..	x	x	x	x	..	x	x	..	..	x	..	..	..
Rack, Lift or Pit	x	..	x	..	x	x	..	..	x	x	x	x	..	x	x	x	x	x	x	x	x

Tools Needed	FLAT RATE OPERATIONS (For Guide to Numerals See Above) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Bench Grinder	x	x	..	x	x	x	..	..	x	x	x	x	..	x	x	x	x	x	..	..	..
Air Compressor	..	x	x	..	x	..	..	..	x	..	x	..	..	x	x	..	..	x	..	..	x
Engine Testing Instruments	..	x	..	..	..	..	..	..	x	..	x	..	..	..	..	..	..	..	..	..	..
Carbon Cleaning Brushes	..	x	..	..	..	..	..	..	x	..	..	..	..	..	..	..	..	..	..	..	..
Breaker Point Synchronizing Tools	..	x	..	x	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cylinder Head Lifting Hooks	..	x	..	..	..	..	..	..	x	..	..	..	..	..	..	..	..	..	..	..	..
Spark Plug Cleaning Brushes	..	x	..	x	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Breaker Point File or Stone	..	x	..	x	..	..	..	..	..	..	..	..	..	..	..	x	..	..	..	..	..
Rod and Piston Aligner	..	..	..	..	..	..	..	..	x	..	..	..	..	..	..	..	..	..	..	..	..
Bearing Scrapers	..	..	..	..	..	..	..	..	x	..	..	..	..	..	..	x	..	..	x	x	..
Brake Testing Machine	x	..	..	..	x	..	..	..	..	..	..	x	..	..	..	..	..	..	..	..	..
Brake Lining Driller	..	..	..	..	x	..	..	..	..	..	..	..	..	x	..	..	..	..	..	..	..
Brake Lining Riveter	..	..	..	..	x	..	..	..	..	..	..	..	..	x	..	..	..	..	..	..	..
Cut-out Brake Drums or Gages	x	..	..	..	x	..	..	..	..	..	..	x	..	..	..	..	..	x	..	..	..
Brake Lining Cutter	..	..	..	..	x	..	..	..	..	..	..	..	..	..	..	..	x	..	..	..	..
Pedal Depressor	x	..	..	..	x	..	..	..	..	..	..	x	..	x	..	..	..	..	..	..	x
Hydraulic Pressure Bleeders	x	..	..	..	x	..	..	..	..	x	..	x	..	x	..	..	..	x	..	..	..
Brake Band Rounding Tool	x	..	..	..	x	..	..	..	..	..	..	..	..	..	..	..	..	..	x	..	..
Pressure Lubricators	..	..	x	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gear Oil Lubricator	..	..	x	..	..	..	..	..	..	..	..	..	..	..	..	..	..	x	..	..	..
Hand Lubricating Guns	x	x	x	x	x	x	..	..	x	..	..	..	..	x	..	..	..	x	x	..	..
Oil Measures	x	..	x	..	x	..	..	..	x	..	x	..	..	x	..	..	..	x	..	..	..
Hand Oil and Grease Guns	..	..	x	..	..	x	..	..	..	..	..	..	..	x	x	..	..	x	..	..	..
Oil Cans	x	x	x	x	x	..	x	x	x	x	x	x	..	x	x	x	x	x	x	..	..
Gear Case Flushers	..	..	x	..	..	..	..	..	..	..	..	..	..	..	..	..	..	x	..	..	..
Spray Gun for Penetrating Oil	x	..	x	..	x	..	..	..	x	..	..	..	..	x	x	x	..	..	..	..	x
Funnels	x	..	x	..	x	..	x	x	x	..	x	..	..	x	..	..	..	..	..	..	..
Pry Bars	x	x	x	x	x	x	x	x	x	..	x	x	x	x	..	x	x	x	x	x	..
Caster, Camber and Toe-in Gages	..	..	..	..	..	..	..	..	..	x	..	x	..	..	..	..	..	..	..	..	..
Lathe	..	x	..	..	x	..	..	..	x	..	..	..	..	x	x	..	..	x	..	..	..
Soldering Irons	..	x	..	x	..	..	..	..	..	..	..	..	..	..	..	x	x	..	..	..	..
Welding Outfit	..	..	..	..	x	..	..	..	..	..	..	..	..	..	..	..	x	..	x	..	..
Blow Torch	x	..	..	..	x	x	..	..	x	x	..	x	..	x	x	x	x	x	x	x	..
Anti-freeze Hydrometer	..	x	..	..	..	..	x	x	x	..	x	..	..	..	..	x	..	..	..	..	..
Electric Test Stand	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	x	..	..	..	x	..
Volt and Ammeter with Shunt	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	x	..	..	..	x	..
Bushing Pusher	..	x	..	..	x	..	..	..	x	..	..	..	..	x	..	..	..	x	x	..	..
Bearing Puller	..	..	..	..	..	..	..	..	..	..	..	x	..	x	x	..	..	x	..	..	..
Buckets	x	x	x	..	x	x	x	x	x	..	x	..	..	x	x	..	..	x	..	..	x

NOTES:

Operation No. 2 requires also Valve Refacer, Valve Seat Reconditioner, Valve Lifters, Valve Spring Compressor, Valve Spring Tester, Valve Lapper, Valve Seat Renewing Tool and Carbon Scrapers.

Operation No. 4 requires also Hydraulic Cylinder Hones and Gages.

Operation No. 5 requires also Brake Testing Machine, Brake Lining Clamps.

Operation No. 9 requires also Piston Ring Compressors, Piston Ring Removers, Piston Ring Groove Cleaners, Crankpin Reconditioner, Conrod Bearing Reconditioning Tools, Engine Bearing Testing Equipment.

Operation No. 12 requires also Axle and Wheel Straightening Equipment.

Operation No. 15 requires also Growler.

Operation No. 16 requires also Fender Tools.

Operation No. 18 requires also Rear Axle Stand.

Operation No. 19 requires also Spring Bushing Jack.

Operation No. 20 requires also Storage Battery Cell Tester, Battery Hydrometers, Battery Filler, Battery Charger.

Operation No. 21 requires also Car Washer, Chamois Sponges, Vacuum Cleaner, Fender Brush, Rubber Boots, Rubber Aprons, Wringer.

Digitized by Google

Extent Repair Shops Are Actually Equipped With 20 Items—and What is Recommended

Compiled from a survey of over 3000 service stations by *Motor World Wholesale*. Should be helpful to service station operators in determining proper equipment, and to wholesalers in recommending equipment to service stations.

Of the 3000 Service Stations:

3% do 1000	jobs and	16% of work
4% do 700-1000	jobs and	11% of work
9% do 500-700	jobs and	16% of work
21% do 300-500	jobs and	26% of work
47% do 100-300	jobs and	28% of work
16% do under 100	jobs and	3% of work

	ACTUAL			RECOMMENDED			Total Number of Tools in All Shops	Recommended	Present State of Under-Equipment
	Jobs per Tool per Month	Tools per Shop	Tools per 100,000 Registrations	Jobs per Tool per Month	Tools per Shop	Tools per 100,000 Registrations			
PORTABLE ELECTRIC DRILLS ¼"	354	.8	300	130	2.2	820	80,500	219,000	138,500
PORTABLE ELECTRIC DRILLS ½"	394	.7	270	143	2.0	740	72,300	199,000	126,700
PORTABLE ELECTRIC DRILLS ⅝"	827	.3	128	220	1.3	480	34,400	129,000	94,600
PORTABLE ELECTRIC DRILLS ¾"	1,500	.2	71	168	1.7	630	18,950	169,000	150,050
JACKS Garage on wheels	251	1.1	420	95	3.0	1,110	113,000	298,500	185,500
JACKS Other types	102	2.8	1,004	82,	3.5	1,300	278,000	348,000	70,000
ARBOR PRESSES	392	.7	271	300	1.0	370	72,700	99,500	26,800
CHASSIS LUBRICATING DEVICES Electric	1,580	.2	67	240	1.2*	440*	18,000	119,000*	52,100*
CHASSIS LUBRICATING DEVICES Air	580	.5	183	.....	.....	.....	48,900	.....	.....
WHEEL PULLERS (Sets)	109	2.6	970	95	3.0	1,110	261,000	298,500	37,500
BRAKE BAND RIVETING MACHINES Power driven	1,000	.3	106	300	1.0*	370*	28,500	99,500*	14,300*
BRAKE BAND RIVETING MACHINES Foot operated	502	.6	212	.....	.....	.....	56,700	.....	.....
BRAKE BAND COUNTERSINK AND DRILL Power driven	537	.5	197	300	1.0*	370*	53,000	99,500*	27,550*
BRAKE BAND COUNTERSINK AND DRILL Foot operated	1,500	.2	71	.....	.....	.....	18,950	.....	.....
CONNECTING ROD ALIGNERS	350	.8	304	220	1.3	480	81,300	129,000	47,700
CYLINDER RECONDITIONING DEVICES Hone type	344	.8	309	191	1.5	570	82,800	149,000	66,200
CYLINDER RECONDITIONING DEVICES Boring and grinding and reaming	810	.4	131	220	1.3	480	35,200	129,000	93,800
HORSES (Pairs)	102	2.8	1,040	57	5.0	1,860	279,000	497,500	218,500
VALVE REFACERS Hand operated	955	.3	111	.....	—	—	29,800	—	—
VALVE REFACERS Power operated	369	.8	288	191	1.5	570	77,200	149,000	71,800
CAR WASHING MACHINES	1,100	.3	97	300	1.0	370	25,900	99,500	73,600
BATTERY CHARGING EQUIPMENT Rectifier or bulb	438	.7	242	300	1.0	370	64,900	99,500	34,600
BATTERY CHARGING EQUIPMENT Motor generator	1,260	.2	84	300	1.0	370	22,600	99,500	76,900
SPRAY PAINTING EQUIPMENT	477	.6	224	300	1.0	370	59,900	99,500	39,600
WRECKING CRANES	550	.5	193	168	1.7	630	51,700	169,000	117,300
BENCH AND FLOOR Foot	5,725	.05	19	.....	.....	.....	4,970	.....	.....
GRINDING WHEELS Power	262	1.1	407	240	1.2*	440*	109,000	119,000*	5,030
SHOP HOISTS AND CRANES	197	1.5	541	114	2.5	930	145,000	249,000	104,000
WELDING EQUIPMENT	382	.7	278	300	1.0	370	74,400	99,500	25,100
MICA UNDERCUTTERS Hand	1,290	.2	83	.....	—	—	22,100	—	—
MICA UNDERCUTTERS Power	1,800	.2	59	950	.3	112	15,900	29,900	14,900
GROWLERS	556	.5	191	.....	—	.....	51,100	—	—
METERS Volt	480	.6	221	.....	—	.....	59,200	—	—
METERS Ampere	523	.5	202	.....	—	.....	54,300	—	—

* Either type. — No recommendations received.

AVERAGE NUMBER OF TOOLS PER SHOP, PER JOB, PER MONTH

A-Actual. R-Recommended.	Over 1000		700-1000		500-700		300-500		100-300		Under 100		Total	
	A	R	A	R	A	R	A	R	A	R	A	R	A	R
PORTABLE ELECTRIC DRILLS ¼"	1.4	4	1.	3	1.2	2	.9	2	.7	1	.5	1	.8	2.2
PORTABLE ELECTRIC DRILLS ½"	.9	3	.6	3	.8	2	.8	2	.7	1	.7	1	.7	2.0
PORTABLE ELECTRIC DRILLS ⅝"	.5	2	.5	2	.5	1	.4	1	.3	1	.3	1	.3	1.3
PORTABLE ELECTRIC DRILLS ¾"	.3	3	.3	2	.3	2	.3	1	.1	1	.09	1	.2	1.7
JACKS Garage on wheels	1.8	6	1.7	4	2.	3	1.3	2	.9	2	.7	1	1.1	3.0
JACKS Other types	5.7	6	3.5	4	2.8	4	2.8	3	2.7	2	2.4	2	2.8	3.5
ARBOR PRESSES	1.2	1	1.2	1	1.1	1	.9	1	.6	1	.5	1	.7	1.0
CHASSIS LUBRICATING DEVICES Electric	.4	2	.4	1	.3	1	.2	1	.1	1	.1	1	.2	1.2*
CHASSIS LUBRICATING DEVICES Air	1.3	.....	.8	.....	.6	.....	.5	.....	.5	.....	.3	.....	.5	.....
WHEEL PULLERS (Sets)	3.8	5	3.7	4	2.9	3	3.	3	2.5	2	2.	1	2.6	3.0
BRAKE BAND RIVETING MACHINES Power driven	.4	1	.3	1	.4	1	.4	1	.3	1	.2	1	.3	1.0*
BRAKE BAND RIVETING MACHINES Foot operated	.8	.....	.8	.....	.7	.....	.6	.....	.6	.....	.4	.....	.6	.....
BRAKE BAND COUNTERSINK AND DRILL Power driven	.8	1	.5	1	.6	1	.6	1	.5	1	.4	1	.5	1.0*
BRAKE BAND COUNTERSINK AND DRILL Foot operated	.3	.....	.3	.....	.3	.....	.1	.....	.2	.....	.2	.....	.2	.....
CONNECTING ROD ALIGNERS	1.1	2	1.3	2	1.1	1	.8	1	.8	1	.6	1	.8	1.3
CYLINDER RECONDITIONING DEVICES Hone type	1.4	2	.9	2	1.2	2	.9	1	.8	1	.7	1	.8	1.5
CYLINDER RECONDITIONING DEVICES Boring and grinding and reaming	.6	2	.6	2	.6	1	.5	1	.3	1	.2	1	.4	1.3
HORSES (Pairs)	6.2	9	5.	7	3.7	5	3.2	4	2.5	3	1.7	2	2.8	5.0
VALVE REFACERS Hand operated	.1	—	.5	—	.1	—	.4	—	.3	—	.4	—	.3	—
VALVE REFACERS Power operated	1.	2	1.	2	.9	2	.8	1	.7	1	.7	1	.8	1.5
CAR WASHING MACHINES	.8	1	.6	1	.4	1	.3	1	.2	1	.1	1	.3	1.0
BATTERY CHARGING EQUIPMENT Rectifier or bulb	1.2	1	.6	1	.8	1	.7	1	.6	1	.6	1	.7	1.0
BATTERY CHARGING EQUIPMENT Motor generator	.4	1	.3	1	.3	1	.3	1	.2	1	.2	1	.2	1.0
SPRAY PAINTING EQUIPMENT	.9	1	.9	1	1.1	1	.6	1	.5	1	.4	1	.6	1.0
WRECKING CRANES	.8	3	1.	2	.5	2	.6	1	.5	1	.4	1	.5	1.7
BENCH AND FLOOR Foot	—	.....	—	.....	.02	.....	.07	.....	.05	.....	.05	.....	.05	.....
GRINDING WHEELS Power	1.7	2	1.1	1	1.4	1	1.2	1	1.	1	.9	1	1.1	1.2*
SHOP HOISTS AND CRANES	1.9	4	2.1	3	2.3	3	1.8	2	1.2	2	1.	1	1.5	2.5
WELDING EQUIPMENT	1.3	1	1.	1	1.	1	.8	1	.7	1	.5	1	.7	1.0
MICA UNDERCUTTERS Hand	.1	—	.3	—	.2	—	.2	—	.2	—	.2	—	.2	—
MICA UNDERCUTTERS Power	.8	1	.4	1	.2	—	.1	—	.1	—	.07	—	.2	.3
GROWLERS	.9	—	.8	—	.7	—	.6	—	.5	—	.3	—	.5	—
METERS Volt	.9	—	.5	—	.7	—	.6	—	.7	—	.4	—	.6	—
METERS Ampere	1.	—	.9	—	.7	—	.5	—	.6	—	.3	—	.5	—

* Either type. — No recommendations received.

Digitized by Google

REAMER SIZES That Are Most Needed In Important Service Jobs

Here Are the Sizes of Expansion Reamers that the Well-Equipped Shop Needs to Perform Service Work on the Items Listed Below for Passenger Car Models from 1925-1929.

SIZES SHOWN IN DECIMALS. FOR CORRESPONDING FRACTIONS, SEE TABLE BELOW

Wristpin

.734	.843	.875	.984	1.093	1.186
.740	.850	.917	.990	1.106	1.218
.750	.856	.927	1.000	1.109	1.225
.796	.859	.937	1.047	1.125	1.235
.812	.865	.968	1.062	1.156	1.250

Valve Guide

.312	.328	.343	.375

Push Rod Guide

.375	.625	.750	.828	.875	1.000
.500	.640	.797	.859	.990	1.062
.609	.687				

Connecting Rod

1.250	1.685	1.875	2.109	2.250	2.562
1.375	1.750	1.984	2.125	2.312	2.625
1.500	1.812	2.000	2.187	2.375	2.687
1.625	1.859	2.093	2.234	2.500	2.750

Water Pump Bushing

.613	.730	.8437	.9375	1.0937	1.225
.618	.7343	.850	.9687	1.105	1.2343
.625	.740	.8593	.9843	1.125	1.250
.6562	.750	.865	1.000	1.1562	1.2968
.668	.7812	.875	1.0312	1.1875	1.3125
.6875	.7968	.9062	1.0468	1.2187	1.375
.7187	.8125	.917	1.0625		

King Bolt Bushing

.421	.625	.750	.843	.875	1.000
.500	.687	.812	.859	.937	1.937
.562	.734				

Tie Rod Bushing

.437	.562	.625	.687	.750
.500	.565			

Spring Bolt Bushing

.500	.565	.687	.812	.875	1.000
.562	.625	.750			

Generator Bushing

.500	.6562	.750	.865	1.000	1.1562
.5312	.668	.7812	.875	1.0312	1.1875
.5625	.6875	.7968	.9062	1.0468	1.2187
.5937	.7187	.8125	.917	1.0625	1.225
.609	.730	.8437	.9375	1.0937	1.2343
.618	.7343	.850	.9687	1.105	1.250
.625	.740	.8593	.9843	1.125	

Starter Bushing

.500	.6562	.750	.865	1.000	1.1562
.5312	.668	.7812	.875	1.0312	1.1875
.5625	.6875	.7968	.9062	1.0468	1.2187
.5937	.7187	.8125	.917	1.0625	1.225
.609	.730	.8437	.9375	1.0937	1.2343
.618	.7343	.850	.9687	1.105	1.250
.625	.740	.8593	.9843	1.125	

DECIMAL TO FRACTION CONVERSION TABLE

1/64	.015625	9/64	.140625	17/64	.265625	25/64	.390625	33/64	.515625	41/64	.640625	49/64	.765625	57/64	.890625
1/32	.03125	5/32	.15625	9/32	.28125	13/32	.40625	17/32	.53125	21/32	.65625	25/32	.78125	29/32	.90625
3/64	.046875	11/64	.171875	19/64	.296875	27/64	.421875	35/64	.546875	43/64	.671875	51/64	.796875	59/64	.921875
1/16	.0625	3/16	.1875	5/16	.3125	7/16	.4375	9/16	.5625	11/16	.6875	13/16	.8125	15/16	.9375
5/64	.078125	13/64	.203125	21/64	.328125	29/64	.453125	37/64	.57812	45/64	.703125	53/64	.828125	61/64	.953125
3/32	.09375	7/32	.21875	11/32	.3475	15/32	.46875	19/32	.593755	23/32	.71875	27/32	.84375	31/32	.96875
7/64	.109375	15/64	.234375	23/64	.359375	31/64	.484375	39/64	.609375	47/64	.734375	55/64	.859375	63/64	.904375
1/8	.1250	1/4	.2500	3/8	.3750	1/2	.50000	5/8	.625	3/4	.7500	7/8	.875	In.	1.000000

Digitized by Google

Tire CHANGE-OVER Data

Dealers and fleet operators need information like the following in making a change-over from high pressure to balloon tires, or in determining just what wheel and rim equipment or what size tires can be used under given circumstances or must be used to secure certain results.

Often it is possible to accomplish what you want at much less cost if you can find out in advance how much of your present equipment can be used. The data here will show you. It was arranged by *Commercial Car Journal and Operation & Maintenance* from Tire and Rim Association standards and from original sources.

High-Pressure and Balloon Tire Interchangeability

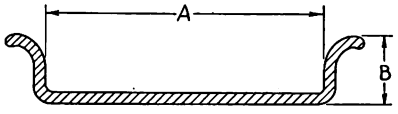
Light figures = High Pressure Tire Data. Heavy Figures = Corresponding Balloon Tire Data

Tire Size	Wheel Size	Rated Rim Size	Maximum Load (Lb.)	Pressure (Lb.)
30 x 5 (6-ply)	20	5	1575	75
6.00/20	20	5	1400	45
30 x 5	20	5	1700	80
6.50/20	20	5	1650	50
32 x 6 (8-ply)	20	5	1950	80
7.00/20	20	5	1900	55
32 x 6	20	6	2200	90
7.50/20	20	6	2100	55
34 x 7	20	7	2800	100
8.25/20	20	7	2550	60
9.00/20	20	7	3250	65
36 x 8	20	8	3600	110
9.75/20	20	8	3900	70
38 x 9	20	8 or 9-10	4500	120
10.50/20	20	9-10	4700	75
40 x 10	20	9-10	5500	130
11.25/20	20	9-10	5450	75
36 x 6	24	6	2500	90
8.25/24	24	7	2950	60
38 x 7	24	7	3200	100
9.00/24	24	7	3650	65
40 x 8	24	8	4000	110
9.75/24	24	8	4400	70
42 x 9	24	9-10	5000	120
10.50/24	24	9-10	5200	75
44 x 10	24	9-10	6000	130
11.25/24	24	9-10	6050	80

TABLE 1

Table 1: This is a table of interchangeability between high-pressure and balloon tires. If you want to know what size balloon tires you can put on your present wheel and rim equipment these data will help. Suppose you have 34 x 7 high-pressure tires. The data above show they are on 20-in. wheel with 7-in. rim. The heavy type directly under indicates you can change-over to 8.25/20 balloons or 9.00/20 balloons without changing wheel or rim. The maximum-load column shows the 8.25/20's will carry a load of 2550 lb., while the 9.00/20's will carry 3250 lb. The data here can be worked from different angles. It will help you determine what to install as new equipment in tires or wheels and rims to get a desired carrying capacity, etc.

Guide to Determining Rated Rim Size from Dimensions

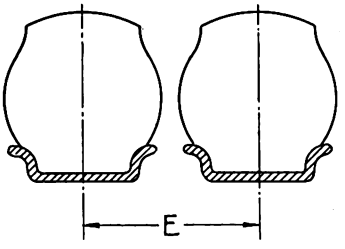


Rated Rim Size	Inches at "A"	Inches at "B"
5	3.75"	1.00"
6	4.33"	1.25"
7	5.00"	1.312"
8	6.00"	1.50"
9-10	7.33"	1.75"
11	8.37"	1.75"

TABLE 2

Table 2: Most information on rims and tires is given in terms of rated rim size which doesn't correspond with inch dimensions. With this table you can tell what the rated size of your rim is by measuring your rim at the points shown in the illustration and getting the corresponding rated size here.

Guide to Whether or Not Oversize Dual Tires Can Be Installed



Present Tire Size	Dual Spacing (Dimension E)	Rated Rim Size	Oversizes Permitted
5	7¼	5	None
5.50	...	..	6.00
5	7¾	5	6*; 6.00; 6.50
6.00	...	..	6.50
6	9	6	†; 7.00
7.00	...	..	7.50
7	10	7	†; 7.50
7.50	...	..	8.25
8.25	10½	7	9.00
8	11½	8	†; 9.00
9.00	...	..	9.75
9.75	12	8	10.50
9.00	12¾	9-10	10.00; 10.50

* 8-ply only.
† Oversize high-pressure permitted, but no standard listed.

TABLE 3

Table 3: This table tells you if you can mount oversize tires on your dual rims and the oversize permitted. For instance, suppose your present tires are 5-in. high-pressure duals. The rated rim size is 5. Measure the dual spacing at "E." If it is 7¼ in. the last column shows oversize tires are not recommended. If it is 7¾ in., table shows you can use 8-ply 6-in. high-pressure duals 5.50 or 6.00 balloon duals (checking, however, to make sure the larger tires would not interfere with brake rigging, fenders or other parts of the vehicle). To determine your rated rim size from measurements see table 2.

Digitized by Google

Analysis of Tire Outlets

Based on figures compiled by Rubber Division, U. S. Department of Commerce, from returns from upwards of 25,000 dealers, as of October 1, 1929.

Other Functions Performed by Tire Dealers Reporting

Function	Number Reporting	Per Cent	Number of These Outlets in Chilton Trade List
Sell Automobiles	10,203	39.2	58,870
Repair Vehicles	12,642	48.5	104,834
Sell Batteries	15,550	59.7	56,391
Sell Gasoline	19,318	74.1	.....
Do Vulcanizing	3,589	13.8	.....

Relation of Tire-and-Tube Sales to Total Volume

	Under 25 Per Cent	25 to 50 Per Cent	50 to 75 Per Cent	Over 75 Per Cent
Number Reporting	21,667	2,874	704	812
Per Cent of Total	83.13	11.03	2.70	3.12

Obviously, from the above, the tire merchants who are selling by far the major volume of casings and tubes are those handling other automobile lines also, and what is more significant, those actually *majoring* in other lines. 83.13 per cent of all the outlets get less than 25 per cent of their total volume from tires and tubes.

The average stock of automobile tires held by the average tire dealer in the U. S. on Oct. 1, 1929, was 68.4, and the average number of tubes was 103.4.

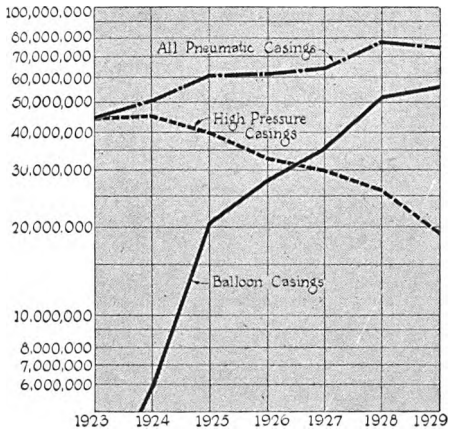
Special Analysis of Types of Dealers in Tires

This analysis is representative of all sections of the country, although covering only 7,295 of the 26,057 returns.

	Number of Dealers	Total No. of Casings	Average Casings per Dealer	Per Cent of Total Dealers	Per Cent of Total Casings
Total Dealers Considered	7,295	529,275	72.55	100.00	100.00
All Dealers Selling Autos	2,800	171,955	61.41	38.38	32.48
All Dealers Selling Batteries	4,234	313,263	73.98	58.04	59.18
All Dealers Vulcanizers	990	151,145	152.67	13.57	28.55
Selling Both Auto and Batteries	2,151	143,097	66.52	29.48	27.04
Selling Autos and Vulcanizing	209	30,193	144.46	2.86	5.70
Selling Batteries and Vulcanizing	565	106,444	188.39	7.74	20.11
Total Selling Autos, or Batteries, or with Vulcanizing Equipment	5,409	432,668	79.99	74.14	81.75

This table shows that of 7,295 dealers with average stocks of 72.55 tires each, 2,800 were automobile dealers with average stocks of 61.41 tires each, representing 32.48 per cent of the total tire business. Further, 4,234 were battery dealers (and 75 per cent of the automobile dealers are duplicated here) with average tire stocks of 73.98 each, representing 59.18 per cent of the total.

Total Tire Production



Car Cost 6.43 Cents Per Mile

(Figures from Bulletin No. 91 by T. R. Agg and H. S. Carter, Iowa State College)

NOTE: The figure 6.43 cents is comparable with the 10 cents per mile compiled by the same authority in 1924. Greater mileage of cars and improved highways account for the lower operating cost per mile.

Average Cost of Automobile Operation

Based on detailed cost records covering about 800 automobiles operated in various parts of the United States and an average of 11,000 miles per year.

Type of Car	Light 4	Medium 4	Heavy 4	Light 6	Medium 6	Heavy 6
	Average Cents Per Mile	Average Cents Per Mile	Average Cents Per Mile	Average Cents Per Mile	Average Cents Per Mile	Average Cents Per Mile
1. Gasoline at 20 cents per gal.	1.34	1.14	1.31	1.36	1.52	1.42
2. Oil	.25	.17	.16	.18	.20	.17
3. Tires and tubes	.60	.65	.70	.75	.80	.90
4. Maintenance	1.55	1.90	2.06	1.95	2.14	2.53
5. Depreciation	1.25	1.40	1.57	1.74	2.09	2.57
6. License	.11	.14	.20	.20	.24	.27
7. Garage at $4 per month	.44	.44	.44	.44	.44	.44
8. Interest at 6%.	.27	.38	.55	.55	.71	.87
9. Insurance (fire, theft, tornado, liability)	.21	.20	.21	.21	.26	.28
Total	6.02	6.42	7.20	7.38	8.40	9.45
Annual mileage	11,000	11,000	11,000	11,000	11,000	11,000
Average miles per gallon gas.	14.95	17.53	15.29	14.68	13.19	14.02

Cost of Operation of an Imaginary "Average" Automobile

(Annual Mileage of 11,000)

Item of Cost	Cents Per Mile
Gasoline	1.31
Oil	0.22
Tires and tubes	0.64
Maintenance	1.72
Depreciation	1.39
License	0.14
Garage at $4 per month	0.44
Interest at 6 per cent	0.36
Insurance (fire, theft, tornado)	0.21
Total cents per mile	6.43

Government Revenue from Each Motor Vehicle Steadily Increasing

	Total Registration	Registration Fees	Gas Tax	Average Receipts Per Vehicle
1909	294,000	$942,675	.....	$3.20
1914	1,711,339	12,382,031	.....	7.20
1919	7,566,446	64,697,255	(4) 1,022,514	8.68
1923	15,092,177	188,970,992	(35) 38,566,338	15.07
1925	19,937,274	260,619,621	(44) 148,358,087	20.50
1928	24,493,124	322,630,025	(46) 304,871,766	25.63

Highway Education Board.

Figures in parenthesis show number of states collecting gosoline tax.

Digitized by Google

THIS MUCH Will Make a LOAD for Your Truck

If the Product You Plan to Haul is Listed Here, You Will Find the Quantity Required to Make Various Tonnages in Terms of the Unit of Weight or Measurement Shown.

EXAMPLE: Suppose you have a 2-ton truck. You are estimating on hauling a large beet crop to market. Here you can determine that a barrel of beets weighs 120 lb. and that 33 barrels will give you a 2-ton load.

MATERIAL TO BE HAULED	UNIT OF MEASUREMENT	WEIGHT PER UNIT (Lbs.)	QUANTITY OF UNITS REQUIRED TO MAKE THESE LOADS								
			One Ton	1½ Tons	2 Tons	2½ Tons	3 Tons	3½ Tons	5 Tons	7½ Tons	10 Tons
Aluminum (cu. yd.)		4500	⅜	⅜	⅞	1⅛	1⅛	1½	2¼	3⅛	4½
Apples (bu.)											
Apples (bbl.)		150	14	20	27	34	40	47	67	100	134
Asbestos (cu. yd.)		5180	⅜	⅝	¾	1	1¼	1⅓	2	3	3¾
Ashes (cu. yd.)		1080	1⅞	2¾	3¾	4⅝	5½	6½	9¼	14	18½
Asphalt (cu. yd.)		2700	¾	1⅛	1½	1⅞	2¼	2½	3¾	5½	7½
Bananas (bbl.)		105	19	29	38	48	57	67	95	143	191
Barley (bu.)		48	42	63	84	105	125	146	209	313	417
Beans (bu.)		60	34	50	67	82	100	117	167	250	335
Beef (bbl.)		200	10	15	20	25	30	35	50	75	100
Beer (case, 24 pt.)		59	34	51	68	85	102	119	169	255	339
Beer (case, 36 pt.)		91	22	33	44	55	66	77	108	165	220
Beer (case, 24 qt.		94	21	32	43	54	64	75	107	160	213
Beer (bbl. 31½ gal.)		355	6	9	12	14	17	20	29	43	57
Beer (half bbl. 15¾ gal.)		195	10	15	20	26	31	36	52	77	103
Beer (hogshd, 63 gal.)		650	3	5	6	8	9	11	16	23	31
Beeswax (cu. yd.)		1633	1¼	1⅞	2½	3⅛	3¾	4⅜	6⅛	9¼	12¼
Beets (bu.)		55	36	55	73	91	109	127	182	273	364
Beets (bbl.)		120	17	25	33	42	50	58	84	125	167
Beverages (5 gal.)		60	34	50	67	84	100	117	167	250	334
Beverages (case, 24 ½ gal.)		180	11	17	22	28	34	39	56	83	112
Beverages (case, 24 ½ pt.)		40	50	75	100	125	150	175	250	375	500
Beverages (case, 50 qt.)		187	11	16	21	27	32	38	54	67	108
Blocks, Paving (cu. yd.)		3700	⅝	⅞	1	1¼	1⅝	1⅞	2¾	4	5½
Bran (bu.)		20	100	150	200	250	300	350	500	750	1000
Brass (cu. ft.)		523	4	6	8	10	12	14	19	29	38
Bronze (cu. ft.)		552	4	6	7	9	11	13	18	27	35
Brick, Clay (cu. yd.)		2720	¾	1⅛	1½	1⅞	2¼	2½	3¾	5½	7½
Brick, Common Hard (cu. yd.)		3400	⅝	⅞	1⅛	1½	1¾	2	3	4½	6
Brick, Paving (cu. yd.)		4250	½	¾	1	1¼	1½	1⅔	2½	3½	4¾
Brick, Fire (cu. yd.)		3915	½	¾	1	¼	1½	1¾	2½	3¾	5
Brick, Pressed (cu. yd.)		3800	½	¾	1	1⅓	1⅝	1⅞	2⅔	4	5¼
Brick, Soft, Interior (cu. yd.)		2700	¾	1⅛	1½	1⅞	2¼	2½	3¾	5½	7½
Buckwheat (bu.)		48	42	63	84	104	125	146	209	313	418
Cabbage (bu.)		50	40	60	80	100	120	140	200	300	400
Carrots (bu.)		50	40	60	80	100	120	140	200	300	400
Carrots (bbl.)		100	20	30	40	50	60	70	100	150	200
Celery (bbl.)		120	17	25	33	42	50	58	84	125	167
Cement, Natural (cu. yd.)		1510	1⅓	2	2⅔	3⅓	4	4⅔	6⅔	10	13⅓
Cement, Porland (cu. yd.)		2430	⅔	1¼	1⅔	2	2½	2⅞	4	6⅛	8
Cement, Portland, (bbl.)		380	5	8	11	13	16	19	27	40	53
Cement, Western (cu. yd.)		1750	1⅛	1¾	2¼	2⅞	3⅜	4	5¾	8½	11⅓
Cinders (cu. yd.)		1080	1⅞	2¾	3¾	4⅝	5½	6½	9¼	14	18½
Clay, dry (cu. yd.)		1700	1⅛	1¾	2⅓	3	3½	4	5⅞	8⅞	11¾
Clay, wet (cu. yd.)		2970	¾	1	1⅓	1⅔	2	2⅓	3⅓	5	6¾
Clay and Gravel, wet (cu. yd.)		2700	¾	1⅛	1½	1⅞	2¼	2½	3¾	5½	7½
Clover (bu.)		25	80	120	160	200	240	280	400	600	800
Coal, Anthracite (cu. yd.)		1520	1⅓	2	2⅔	3⅓	4	4⅔	6⅔	10	13⅓
Coal, Bituminous (cu. yd.)		1275	1½	2⅜	3⅛	3⅞	4¾	5½	7¾	11¾	15½
Coal, Channel (cu. yd.)		1325	1½	2¼	3	3¾	4½	5⅓	7½	11⅓	15
Coal, Indiana (cu. yd.)		1160	1¾	2⅔	3½	4⅓	5¼	6	8½	13	17
Coal, Pocahontas (cu. yd.)		1410	1½	2⅛	2⅞	3½	4¼	5	7	10½	14
Coke (cu. yd.)		1000	2	3	4	5	6	7	10	13	15
Concrete Cinder (cu. yd.)		2970	¾	1	1⅓	1⅔	2	2⅓	3⅓	5	6¾
Concrete Gravel (cu. yd.)		4100	½	¾	1	1¼	1½	1¾	2½	3⅔	5
Concrete Stone (cu. yd.)		4200	½	¾	1	1¼	1⅓	1⅔	2⅔	3⅝	4¾
Copper (cu. yd.)		7075	⅜	½	⅝	¾	⅞	1	1½	2⅛	3
Cork (cu. yd.)		405	5	7½	10	12½	15	17½	25	37½	50
Corn, Green (bbl.)		98	20	31	41	51	62	72	102	153	204
Corn Shelled (bu.)		56	36	55	73	91	109	127	182	273	364
Corn Meal bolted (bu.)		44	45	68	91	114	137	159	227	342	255
Cotton (bale)		515	4	6	8	10	12	14	20	29	39
Cotton Compressed (bale)		515	4	6	8	10	12	14	20	29	39
Crushed Stone (cu. yd.)		2700	¾	1⅛	1½	1⅞	2¼	2⅔	3¾	5½	7½

(continued on next page)

Digitized by Google

This Much Will Make a Load for Your Truck—Continued

MATERIAL TO BE HAULED	UNIT OF MEASUREMENT	WEIGHT PER UNIT (Lbs.)	QUANTITY OF UNITS REQUIRED TO MAKE THESE LOADS							
			One Ton	1½ Tons	2 Tons	2½ Tons	3 Tons	3½ Tons	5 Tons	7½ Tons	10 Tons
Cucumbers (bu.)		48	42	63	84	104	125	146	209	313	418
Cucumbers (bbl.)		120	17	25	33	42	50	58	84	125	167
Earth, dry, loose (cu. yd.)		1890	1	1 5/8	2 1/8	2 2/3	3 1/8	3 3/4	5 1/3	8	10 2/3
Earth, moist (cu. yd.)		2214	7/8	1 3/8	1 3/4	2 1/4	2 3/4	3 1/8	4 1/2	6 3/4	9
Eggs (crate, 30 doz.)		52	39	58	77	96	115	134	192	289	385
Fats (cu. yd.)		1566	1 1/4	1 7/8	2 1/2	3 1/4	3 7/8	4 1/2	6 1/2	9 2/3	13
Feed (bu.)		40	50	75	100	125	150	175	250	375	500
Flour, loose (cu. yd.)		756	3	4	5 1/3	6 1/2	8	9 1/3	13 1/3	20	26.6
Flour, pressed (cu. yd.)		1289	1 1/2	2 3/8	3 1/8	3 7/8	4 3/4	5 1/2	7 3/4	11 3/4	13 1/3
Fuel Oil (bbl. 55 gal.)		400	5	8	10	13	15	18	25	38	50
Garbage (cu. yd.)		1150	1 3/4	2 3/4	3 1/2	4 1/3	5 1/4	6	8 1/2	13	17
Granite (cu. yd.)		4540	3/8	5/8	7/8	1 1/8	1 1/3	1 1/2	2 1/4	3 1/3	4 1/2
Gravel, dry (cu. yd.)		2970	3/4	1	1 1/3	1 2/3	2	2 1/3	3 1/3	5	6 3/4
Greens (bbl.)		60	34	50	67	84	100	117	167	250	334
Hay (std. bale)		210	10	14	19	24	29	33	47	71	94
Hay (small bale)		120	17	25	33	42	50	58	84	125	167
Hominy (bu.)		60	34	50	67	84	100	117	167	250	334
Horseradish (bu.)		50	40	60	80	100	120	140	200	300	400
Indian Wheat (bu.)		46	42	63	84	104	125	146	209	313	418
Iron, Brown (cu. yd.)		6400	1/3	1/2	5/8	3/4	7/8	1 1/8	1 1/2	2 1/3	3
Iron, Hematite (cu. yd.)		8780	1/4	1/3	1/2	5/8	2/3	3/4	1 1/8	1 3/4	2 1/4
Iron, Magnetite		8400	1/4	1/3	1/2	5/8	2/3	7/8	1 1/4	1 3/4	2 1/2
Iron, Ordinary (cu. yd.)		7590	1/4	3/8	1/2	2/3	7/8	1	1 1/3	2	2 2/3
Lard (cu yd.)		1593	1 1/4	1 7/8	2 1/2	3 1/4	3 7/8	4 1/2	6 1/2	9 2/3	13
Lead (cu. yd.		12,250	1/3	1/4	1/3	1/2	1/2	5/8	3/4	1 1/4	1 2/3
Leather (cu. yd.)		1593	1 1/4	1 7/8	2 1/2	3 1/4	3 7/8	4 1/2	6 1/2	9 2/3	13
Lettuce (bbl.)		60	34	50	67	82	100	117	167	250	335
Lime (cu. yd.)		1450	1 3/8	2	2 3/4	3 1/2	3 7/8	4 7/8	7	10 3/8	14
Lime (bbl.)		320	6	10	13	16	19	22	32	47	63
Limestone, solid (cu. yd.)		4540	3/8	2/3	7/8	1 1/8	1 1/3	1 1/2	2 1/4	3 1/3	4 1/2
Limestone, loose (cu. yd.)		2600	3/4	1 1/8	1 1/2	2	2 1/3	2 2/3	3 7/8	5 3/4	7 3/4
Linseed Oil (bbl. 50 gal)		400	5	8	10	13	15	18	25	38	50
Malt (bu.)		35	57	86	114	143	171	200	286	429	572
Manganese (cu. yd.)		6990	3/8	1/2	5/8	3/4	7/8	1	1 1/2	2 1/8	3
Marble, solid (cu. yd.)		4450	3/8	1	7/8	1 1/8	1 1/3	1 1/2	2 1/4	3 1/3	4 1/2
Marble, loose (cu. yd.)		2600	3/4	1 1/8	1 1/2	2	2 1/3	2 2/3	3 7/8	5 3/4	7 3/4
Meal (bu.)		50	40	60	80	100	120	140	200	300	400
Milk (case, 20 pt.)		54	36	55	73	91	109	127	182	273	364
Milk (case, 12 qt.)		63	32	48	64	80	95	111	159	238	318
Milk (can)		113	18	27	36	45	53	62	89	133	178
Molasses (bbl. 50 gal.)		650	3	5	6	8	9	11	16	23	31
Nickel (cu. ft.)		549	3 2/3	5 1/2	7 1/3	9	11	13	18 1/3	27 1/3	36 1/2
Oats (bu.)		32	63	94	125	157	188	219	313	469	626
Onions (bu.)		55	36	55	73	91	109	127	182	273	364
Onions (bbl.)		160	13	19	25	32	38	44	63	94	125
Paper (cu. yd.)		1570	1 1/3	2	2 2/3	3	4	4 1/2	6 1/2	9 1/2	12 1/2
Paper, Newsprint (cu. yd.)											
Parsley (bu.)		8	250	375	500	.....	.....	.....	.....	.....	.....
Peanuts (bu.)		20	100	150	200	250	300	350	500	750	1,000
Peas (bu.)		60	34	50	67	82	100	117	167	250	335
Pears (bbl.)		150	14	20	27	34	40	47	67	100	134
Peppers (bbl.)		60	34	50	67	82	100	117	167	250	335
Pie Plant (bu.)		50	40	60	80	100	120	140	200	300	400
Pitch (cu. yd.)		1860	1	1 5/8	2 1/8	2 2/3	3 1/4	3 3/4	5 3/8	8	10 3/4
Plaster Paris (cu. yd.)		2650	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 2/3	3 3/4	5 2/3	7 1/2
Pork (bbl.)		200	10	15	20	25	30	35	50	75	100
Potatoes (bu.)		60	34	50	67	84	100	117	167	250	334
Potatoes (bbl.)		175	12	17	23	29	34	40	57	85	115
Powder (cu. yd.)		1682	1 1/4	1 7/8	2 1/2	3	3 5/8	4 1/8	6	9	12
Quartz (cu. yd.)		4375	3/8	2/3	7/8	1 1/8	1 3/8	1 2/3	2 1/4	3 1/2	4 1/2
Resin (cu. yd.)		1215	1 5/8	2 1/2	3 1/3	4 1/8	4 7/8	5 3/4	8 1/4	12 1/3	16 1/2
Rhubarb (bu.)		50	40	60	80	100	120	140	200	300	400
Rice (bu.)		43	47	70	93	117	140	163	233	349	465
Rubbish (cu. yd.)		200	10	15	20	25	30	35	50	75	100
Rye (bu.)		55	36	55	73	91	109	127	182	273	364
Salt (bbl.)		280	7	11	14	18	22	25	36	54	72
Sand, wet (cu. yd.)		3190	5/8	7/8	1 1/4	1 1/2	1 7/8	2 1/4	3 1/8	4 3/4	6 1/4
Sand, dry, loose (cu. yd.)		2620	3/4	7 1/8	1 1/2	2	2 1/3	2 2/3	3 3/4	5 3/4	7 1/2
Sandstone (cu. yd.)		4025	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2 1/2	3 2/3	5
Shale (cu. yd.)		4375	3/8	2/3	7/8	1 1/8	1 3/8	1 2/3	2 1/4	3 3/8	4 1/2
Shorts (bu.)		20	100	150	200	250	300	350	500	750	1,000
Slag Bank (cu. yd.)		1900	1	1 5/8	2 1/8	2 2/3	3 1/8	3 3/4	5 1/3	8	10 2/3
Slag Sand (cu. yd.)		1490	1 1/2	2	2 2/3	3 3/8	4	4 3/4	6 3/4	10	13 1/2
Slate (cu. yd.)		4725	1/2	2/3	7/8	1 1/8	1 1/4	1 1/2	2 1/8	3 1/8	4 1/4
Spinach (bu.)		20	100	150	200	250	300	350	500	750	1,000
Spinach (bbl.)		60	34	50	67	84	100	117	167	250	334
Steel (cu. ft.)		490	4	6	8	10	12	14	21	31	41
Straw (bale)		180	11	17	22	28	34	39	56	84	112
Street Sweepings (cu. yd.)		850	2 1/2	3 1/2	5	6	7	8 1/2	12	18	24
Sugar (bbl.)		300	7	10	13	17	20	23	33	50	70
Sugar Cane (bu.)		57	36	55	73	91	109	127	182	273	364
Sulphur (cu. yd.)		3380	5/8	7/8	1 1/8	1 1/2	1 3/4	2	3	4 1/2	6
Tar (cu. yd.)		1674	1 1/4	1 7/8	2 1/2	3	3 3/8	4 1/8	6	9	12
Tile (cu. yd.)		2970	3/4	1	1 1/3	1 2/3	2	2 1/3	3 1/3	5	6 3/4
Tin (cu. yd.)		11,290	1/3	1/4	1/3	1/2	1/2	5/8	3/4	1 1/4	1 2/3
Tomatoes (bu.)		55	36	55	73	91	109	127	182	273	364
Trap Stone (cu. yd.)		5050	1/3	5/8	3/4	1	1 1/8	1 3/8	2	3	4
Turnips (bbl.)		120	17	25	33	42	50	58	84	125	167
Turnips (bu.)		55	36	55	73	91	109	127	182	273	364
Turpentine (bbl. 51 gal.)		432	5	7	9	12	14	16	23	35	46
Vinegar (bbl. 48 gal.)		400	5	8	10	13	15	18	25	38	50
Wheat (bu.)		60	34	50	67	82	100	117	167	250	335
Wool, pressed (cu. yd.)		2214	7/8	1 1/4	1 7/8	2 1/4	2 3/4	3 1/4	4 5/8	6 7/8	9 7/8
Zinc (cu. yd.)		7830	1/4	3/8	1/2	5/8	3/4	7/8	1 1/4	2	2 1/2

Digitized by Google

Registration of Motor Trucks by Vocations and Capacities

This tabulation, based on 1929 registrations, shows the approximate number of motor trucks and their capacity in use by the different industries and businesses in the United States. The Major Group of Vehicles in Use by Most Vocations is in the one-ton class. The standing of each vocation as a buyer of trucks is shown in the last column.

Industry or Business	Total Trucks in Use Over 1 Ton	Total Trucks in Use 2½ Tons and Over	Total of All Trucks in Use	Ranking
Agricultural Machinery and Implements	2,347	1,123	14,700	42
Autos, Accessories and Supplies	25,750	11,150	182,000	4
Bakeries	15,470	3,690	88,500	10
Bottlers	13,650	5,210	41,150	25
Building Material and Supplies	15,230	8,725	48,920	23
Cigars and Tobacco	1,995	814	15,850	40
Clothing, Men's and Women's	2,155	833	12,710	46
Dry Goods	5,825	2,042	23,390	34
Department Stores	6,040	2,255	17,610	38
Coal, Coke and Ice	11,510	5,145	42,450	24
Coal and Fuels Exclusively	31,040	17,590	77,750	17
Confectioners	6,135	2,519	36,300	26
Creameries, Dairies and Ice Cream	21,550	11,620	88,405	13
Drugs, Chemicals and Drug Sundries	7,051	3,805	26,450	31
Electrical Contractors	733	274	10,810	49
Electrical Machinery and Contractors' Supply	2,100	750	18,885	36
Flour, Feed Mills and Grain Elevators	6,749	2,699	27,855	29
Florists	2,322	619	25,190	33
Furniture and Home Furnishing	15,092	5,095	88,050	12
General Merchandise	8,450	2,498	115,250	8
Groceries and Food Products	49,209	19,000	343,950	2
Hardware	12,055	4,570	83,750	15
Hay, Grain and Feed	3,139	1,380	15,100	41
Household Appliances	479	213	3,375	61
Jewelry	597	220	3,640	57
Leather Goods and Luggage	1,380	614	5,780	53
Lumber, Logging and Mill Work	40,100	20,720	118,800	7
Machinery and Tools	7,099	3,640	28,850	27
Meats and Packing House Products	16,990	7,045	93,450	9
Metals and Metal Products	14,680	8,490	49,150	21
Mines and Quarries	6,220	4,298	18,390	37
Novelties and Toys	2,221	771	12,200	47
Office and Store Equipment	2,024	1,025	8,535	52
Oil and Gasoline	50,450	26,990	129,000	6
Paper and Paper Products	5,790	3,110	14,420	44
Plumbing and Heating	7,040	2,850	75,100	18
Printers	1,595	651	9,300	51½
Produce and Commission Merchants	10,720	3,899	50,350	20
Publishers	1,613	616	8,615	50
Rubber Products	1,412	779	3,120	62
Shoes	1,070	444	5,650	55
Textiles	4,520	1,925	16,450	39
Banks	535	197	3,450	60
General Contractors	35,100	19,420	194,500	3
Road Contractors	4,250	3,070	12,550	48
General Trucking	77,700	49,400	164,700	5
Hospitals and Public Institutions	616	160	3,985	57
Hotels, Clubs and Restaurants	3,350	1,160	25,750	32
Laundries and Cleaners	5,825	1,535	84,100	14
Schools	1,375	274	9,850	51
Undertakers	4,505	319	36,890	30
Warehouses	6,320	3,995	12,700	45
R. F. D. Owners	43,650	1,345	579,000	1
Real Estate	1,840	829	14,300	43
Municipal, County and State	3,180	16,000	81,300	16
U. S. Post Office	1,085	579	5,690	54
U. S. Army, Etc.	526	342	47,900	22
Electric Railways	1,340	709	3,640	58
Gas, Electric and Water Utilities	13,720	6,210	53,200	19
Railroads and Steamships	9,350	5,610	21,200	35
Telephone and Telegraph	4,110	1,705	45,010	28

Number of Motor Truck FLEETS by States by Size of Fleet

This Count, Limited to Fleets of Five or More Vehicles Each, is From the Verified Records of the List Department of Chilton Class Journal Company, as of April, 1930.

STATE	SIZE OF FLEET 5-9	10-24	25-49	50 Up	TOTAL	Operate Own Service Shop*
Alabama	108	63	8	6	185	103
Arizona	45	34	5	1	85	32
Arkansas	101	44	5	1	151	70
California	899	608	179	123	1,809	1,088
Colorado	116	84	17	5	222	107
Connecticut	244	105	30	13	392	242
Delaware	28	10	4	2	44	29
Dist. Columbia	92	54	39	21	206	101
Florida	170	131	32	8	341	162
Georgia	177	74	11	7	269	104
Idaho	16	10	...	2	28	16
Illinois	943	450	148	111	1,652	882
Indiana	459	189	47	27	722	412
Iowa	212	76	17	7	312	160
Kansas	158	59	10	9	236	141
Kentucky	137	62	26	6	231	122
Louisiana	144	78	18	10	250	124
Maine	54	28	2	4	88	31
Maryland	179	91	31	17	318	151
Massachusetts	611	296	90	51	1,048	675
Michigan	579	322	117	66	1,084	922
Minnesota	227	115	33	17	392	228
Mississippi	61	17	1	1	80	31
Missouri	369	157	43	40	609	353
Montana	56	21	3	3	83	39
Nebraska	126	74	10	5	215	111
Nevada	10	5	...	...	15	8
New Hampshire	38	13	...	1	52	35
New Jersey	724	296	72	41	1,133	537
New Mexico	5	5	...	...	10	7
New York	2,288	890	213	208	3,599	991
North Carolina	132	88	18	8	246	105
North Dakota	10	8	2	1	21	10
Ohio	937	432	142	86	1,597	1,000
Oklahoma	145	92	22	16	275	134
Oregon	108	63	18	5	194	102
Pennsylvania	1,132	491	127	110	1,860	1,023
Rhode Island	124	61	16	11	212	137
South Carolina	98	36	5	6	145	67
South Dakota	12	3	...	1	16	9
Tennessee	155	86	18	9	268	131
Texas	318	221	51	19	609	275
Utah	64	44	13	3	124	61
Vermont	25	6	...	1	32	15
Virginia	167	90	19	5	281	129
Washington	235	117	30	13	395	166
West Virginia	163	79	9	8	259	148
Wisconsin	296	127	26	19	468	243
Wyoming	19	9	1	1	30	15
TOTAL	13,516	6,514	1,728	1,135	22,893	11,704

1503 of these fleets operate all Ford vehicles; 8,492 have no Fords; 12,749 have various makes.

* This count of fleet owners who operate their own service shop is based on returns from 17,748 concerns. On 5,143 this information is not yet available. If the same ratio carried through on the remainder, 3,850 service shops would be added.

Digitized by Google

Analysis of Truck Operating Experience from 5,584 Concerns

46,017 Vehicles Owned by Concerns Grouped Here by Type of Business for Easy Comparison.
Information Came from All Types of Concerns All Over the United States and is Quite Representative.

TYPE OF BUSINESS (Vocation)	Number of Firms	NUMBER OF VEHICLES BY CAPACITY*			BODIES USED†			METHOD OF PAYING DRIVERS			HAULING BY OWN OR HIRED TRUCKS		OPERATING EXPERIENCE																	
		Light, ½ to 1½ Tons	Medium, 1½ to 3 Tons	Heavy, 3 Tons Up	% Using Special Bodies	% Using Standard Bodies	% Using both Special and Standard Bodies	% Paying Drivers Straight Salary	% Paying Drivers Salary and Bonus	% Paying Drivers Straight Commission	% Do all Hauling in Own Trucks	% Hiring Trucks for One or More Purposes	Average Miles Per Gallon of Gas			Average Miles Per Quart of Oil			Average Payload			Average Length of Haul of Route			Average Number of Stops Per Day			Total Operating Costs Per Mile Including Maintenance and Depreciation		
													Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty
					%	%	%	%	%	%	%	%	Miles	Miles	Miles	Miles	Miles	Miles	Lbs.	Lbs.	Lbs.	Miles	Miles	Miles	Stops	Stops	Stops	Cents	Cents	Cents
Auto Supplies and Accessories	177	381	163	27	28	57	15	87	8	5	55	45	13.1	9.5	6.1	128.7	116.7	95.2	2004.	4924.	11091.	33.7	71.0	53.6	22.6	14.3	12.8	15.2	18.8	51.7
Bakeries	121	2,755	365	113	38	49	13	28	36	36	53	47	12.9	9.8	5.5	124.4	86.0	55.2	1215.	2981.	9500.	60.5	123.9	52.	93.2	54.9	8.0	7.9	13.4	40.0
Bottlers	97	460	798	84	71	19	10	45	38	17	83	17	13.4	9.8	6.6	109.2	90.3	97.0	3459.	4741.	9583.	40.0	56.3	57.5	49.4	45.6	52.3	7.8	11.9	..
Building Material and Supplies	295	644	809	617	52	41	7	91	6	3	63	37	12.1	9.7	5.0	104.3	90.8	59.2	2894.	6160.	12712.	11.6	17.1	11.8	21.0	17.3	12.8	16.0	20.7	29.2
Department Stores	132	744	275	28	48	41	11	85	13	2	56	44	12.3	9.9	4.7	106.6	95.1	88.0	1848.	4902.	12857.	40.4	45.5	44.9	81.6	29.6	12.3	12.1	15.9	31.5
Coal, Coke and Ice	101	597	364	114	66	22	12	78	20	2	82	18	12.9	9.7	4.7	81.9	80.8	43.0	3006.	4574.	9500.	19.7	25.9	45.4	85.2	83.2	17.4	11.2	17.2	22.8
Coal and Fuel Exclusively	146	379	320	152	68	26	6	80	7	13	62	38	11.8	8.6	4.9	110.5	92.8	60.2	3323.	5470.	10069.	5.1	15.2	9.2	25.0	24.1	16.9	18.7	24.7	42.8
Confectioners	34	99	26	0	41	47	12	73	18	9	50	50	13.2	11.4	..	119.5	125.6	..	1482.	3417.	..	57.4	72.6	..	39.3	43.3	..	9.4	18.1	..
Creameries, Dairies and Ice Cream Mfrs	184	1,259	514	74	46	44	10	67	24	9	71	29	12.3	9.4	6.0	105.4	91.2	78.4	2202.	5222	10742.	42.0	59.4	65.2	129.0	63.3	35.9	10.3	13.9	18.1
Drugs, Chemicals and Drug Sundries	23	161	46	9	48	43	9	96	4	..	57	43	13.0	7.4	5.5	82.5	85.2	42.7	1687.	4500.	11750.	41.2	22.4	15.0	30.5	25.7	4.0	33.4	39.6	56.5
Electrical Contractors	51	136	36	1	32	62	6	98	2	..	57	43	14.6	11.4	..	128.0	100.4	..	1055.	3187.	..	14.7	25.7	..	19.3	22.9	..	9.2	10.5	..
Flour and Feed Mills and Grain Elevators	94	124	118	16	50	48	2	97	3	..	79	21	13.2	11.4	6.0	113.3	91.6	75.0	3207.	5330.	8800.	18.5	36.5	8.2	29.3	18.9	11.5	9.9	11.6	..
Florists	59	142	15	2	19	78	3	97	3	..	59	41	14.2	12.3	11.0	114.4	127.1	85.0	1082.	2860.	..	17.2	31.2	33.0	32.0	18.2	8.0	8.6	15.2	..
Furniture and House Furnishings	179	509	184	16	73	19	8	95	5	..	71	29	13.2	10.5	6.7	104.4	110.5	96.2	1584.	3573.	8000.	27.6	82.3	120.0	24.7	18.4	6.7	10.9	17.0	27.0
General Merchandise	219	656	105	7	36	59	5	86	10	4	68	32	14.0	10.6	6.3	111.9	101.3	80.5	1946.	4462.	8571.	26.8	46.3	39.7	48.7	24.7	7.6	11.9	13.5	28.6
Groceries and Other Food Products	341	2,554	683	303	39	54	17	92	6	2	67	33	13.0	10.6	6.9	108.3	109.2	65.1	1836.	5239.	10717.	21.9	45.2	37.9	56.9	29.9	11.9	9.5	16.8	39.4
Hardware	100	200	56	12	36	60	4	97	2	1	73	27	14.1	11.2	5.0	108.2	107.2	85.0	1512.	3841.	6500.	12.0	18.0	15.0	27.1	17.8	12.5	10.9	13.5	..
Hay, Grain and Feed	48	142	70	8	46	50	4	91	9	..	78	22	13.8	9.5	6.7	112.5	89.4	59.6	2707.	6542.	16400.	21.2	29.9	46.4	19.5	10.5	5.7	8.8	14.7	..
Lumber, Logging and Mill Work	317	598	525	141	74	21	5	94	6	..	75	25	12.5	9.4	5.9	86.8	80.0	71.7	2645.	5307.	9612.	11.5	16.8	30.8	19.6	14.9	8.2	15.0	20.6	29.0
Machinery and Tools	62	93	71	25	40	53	7	93	5	2	45	55	13.4	9.9	5.4	96.0	114.1	55.6	1358.	4278.	12167.	23.2	32.7	33.5	20.1	15.7	10.5	14.7	24.5	38.5
Meats and Other Packing House Products	74	1,099	921	224	51	38	11	82	16	2	68	32	12.7	9.9	4.8	122.0	84.2	60.4	1758.	4058.	10000.	34.3	56.3	43.5	49.4	39.1	30.8	9.0	12.0	36.1
Metals and Metal Products	107	150	101	80	33	54	3	93	6	1	58	42	12.4	9.1	4.9	94.1	85.7	53.7	2821.	5162.	9618.	33.2	40.2	16.6	22.5	17.3	10.5	15.2	30.2	44.3
Oils and Gasoline	322	1,532	1,940	291	71	21	8	72	22	6	86	14	13.5	10.8	6.7	113.3	96.3	84.6	2883.	4459.	8893.	23.5	25.7	49.8	15.4	13.5	13.7	9.2	12.5	18.3
Plumbing and Heating	87	232	80	27	40	56	4	96	3	1	46	54	15.1	10.3	3.7	94.8	89.3	42.5	1198.	3641.	7500.	12.6	26.4	30.0	30.0	18.1	17.4	13.3	17.7	..
Produce and Com. Merchants	120	346	297	16	55	38	7	85	13	2	82	18	14.3	11.4	8.0	115.8	108.0	78.5	2597.	5468.	11000	78.7	122.4	121.8	27.7	26.1	11.4	11.1	13.3	..
Publishers	59	724	123	8	25	61	14	89	11	..	37	63	13.5	9.6	4.7	105.0	94.1	48.0	2053.	3437.	18000	63.2	27.9	15.5	67.9	51.0	20.0	10.3	20.9	55.0
General Contractors	165	475	317	201	49	43	8	95	4	1	50	50	13.1	9.2	6.8	101.6	101.8	60.5	2538.	6528.	10583	14.3	16.7	17.6	21.2	21.1	29.7	10.9	18.4	37.0
Road Contractors	83	490	946	665	42	49	9	88	9	3	58	42	11.9	7.8	5.8	106.0	86.6	79.7	5311.	7068.	10955.	9.4	17.5	11.2	34.3	38.2	32.4	9.6	16.3	18.0
General Trucking	339	993	1,007	534	61	31	8	78	17	5	79	21	12.7	9.3	5.7	109.2	105.1	80.3	3313.	6935.	14442.	44.0	63.4	74.4	34.0	19.0	22.0	13.2	17.1	23.6
Laundries and Cleaners	131	2,836	86	1	30	62	8	22	56	22	78	22	13.6	12.4	..	105 2	102.3	..	1025.	1691.	..	47.8	62.0	..	90.4	78.6	..	7.8	8.2	..
Warehouses	87	248	353	143	67	22	11	77	17	6	86	14	12.0	9.9	6.3	100.1	99.9	98.6	2844.	5802.	11976.	57.5	86.7	91.7	35.1	22.1	10.1	15.6	19.5	28.4
Municipal, County and State	57	433	366	415	33	49	18	96	4	..	64	36	12.0	7.6	4.6	98.3	83.8	41.7	2429.	5662.	9429.	26.1	36.5	18.6	26.6	..	..	8.9	15.8	20.4
Gas, Electric and Water Utilities	130	2,163	1,281	231	39	34	27	91	8	1	55	45	12.9	8.3	4.5	121.6	88.4	54.2	1590.	3897.	10938	27.1	23.4	28.2	36.5	23.0	20.8	8.9	17.4	29.0
Unclassified	339	585	354	127	52	44	4	91	8	1	51	49	12.4	9.0	4.9	105.3	95.3	55.0	2737.	4503.	11030.	20.3	24.1	22.2	23.4	14.6	8.7	14.1	20.4	23.7
Miscellaneous Industries	432	1,051	518	61	46	48	6	88	7	5	74	26	13.6	10.5	6.1	113.9	85.1	54.5	2410.	4856.	11625.	30.4	38.9	35.1	30.4	26.6	15.1	11.6	16.3	37.5

* Total number of vehicles represented in this analysis: 46,017. Light-duty, 26,656; medium-duty, 14,504; heavy-duty, 4857.

† Summarizing bodies used: 2709 firms or 50% used special bodies (made and adapted to their requirements by body builders; 2249 firms or 42% used standard bodies (furnished by the truck manufacturers); 430 firms or 8% used both types of bodies.

Data from National Survey made by General Motors Truck Co. between September, 1929, and April, 1930.

Digitized by Google

AVIATION Facts for Automotive Dealers and Service Shops

Many wholesalers of automobile and truck equipment, repair and maintenance tools, dealers in automobiles and trucks, service-shop operators already are including aviation in their plans and work. For them, as well as for others in the trade who are interested in studying the growth and possibilities here, the following fundamental facts are presented to give a quick picture of this branch of the automobile industry.

BASED ON DATA FROM 1930 ISSUE OF *Chilton Aero Directory and Catalog*

STATE	Aircraft Registration		Users of Planes and Equipment				Trade Outlets		
	1928	1929	Licensed Pilots	Transport Companies	Airports	Flying Schools	Wholesalers—Parts, Supplies Tools, Equipment 1	Distributors and Dealers in Airplanes 2	Service or Repair Shops 3
Alabama	14	28	51	5	9	2	4	6	1
Arizona	18	33	49	12	28	12	7	13	6
Arkansas	55	64	90	8	15	7	6	7	4
California	801	1,222	2,076	110	176	113	123	123	66
Colorado	43	77	101	14	31	9	18	12	8
Connecticut	52	87	95	11	9	9	9	10	4
Delaware	13	35	16	1	3	0	1	1	0
Dist. of Columbia	57	62	258	7	3	5	5	4	4
Florida	70	100	168	20	31	11	22	14	12
Georgia	57	66	59	11	25	9	9	10	4
Idaho	7	22	19	9	10	6	6	7	6
Illinois	464	697	637	58	67	37	54	42	34
Indiana	145	242	216	39	35	28	36	42	22
Iowa	112	159	178	21	35	18	23	24	15
Kansas	156	392	218	31	49	30	27	29	21
Kentucky	31	38	54	4	9	4	7	5	1
Louisiana	65	89	62	11	16	10	17	11	7
Maine	13	17	29	4	4	5	2	3	1
Maryland	63	97	118	6	10	7	6	6	4
Massachusetts	119	238	70	17	26	18	27	18	16
Michigan	305	476	489	40	48	28	38	38	23
Minnesota	145	191	201	18	20	22	17	15	10
Mississippi	13	23	44	2	5	2	0	4	1
Missouri	261	572	341	28	19	31	27	31	16
Montana	45	74	49	9	17	7	6	8	2
Nebraska	88	242	155	8	21	9	13	9	4
Nevada	6	8	11	1	8	0	0	1	0
New Hampshire	13	19	23	4	6	4	2	5	2
New Jersey	120	253	220	18	28	15	23	25	14
New Mexico	7	18	18	3	13	3	2	3	3
New York	558	1,189	1,007	74	62	48	85	59	47
North Carolina	59	72	58	13	21	8	13	11	8
North Dakota	27	59	42	11	11	8	9	10	6
Ohio	315	606	522	60	53	49	51	47	34
Oklahoma	160	337	299	23	37	11	20	18	13
Oregon	43	118	79	20	20	14	20	16	12
Pennsylvania	285	463	500	55	66	40	61	45	39
Rhode Island	24	34	35	5	6	5	5	5	5
South Carolina	20	37	21	5	10	4	3	5	1
South Dakota	34	72	79	14	14	11	8	14	9
Tennessee	52	85	88	10	9	6	10	5	5
Texas	277	433	585	44	61	24	52	36	24
Utah	22	31	48	5	7	3	6	5	5
Vermont	5	13	20	2	5	2	2	1	1
Virginia	62	61	191	13	26	7	8	7	8
Washington	136	224	190	31	29	28	18	23	16
West Virginia	30	31	29	6	6	4	9	6	3
Wisconsin	155	269	199	31	34	22	30	24	21
Wyoming	12	18	25	5	8	3	2	2	3
TOTALS	5,634	9,840	10,215	957	1,263	758	949	865	571

Aviation Growth Shown in Figures by Years

Year	Airports in Operation	Pounds of Air Mail	Miles Lighted Airways	Active Pilots
1926	....	810,855	2,041	.....
1927	902	1,654,165	4,468	3,242
1928	1,224	4,061,481	6,988	5,605
1929	1,569	7,700,000	12,448	10,215

Safety of Flying Increases

Based on Finding of the Accident Board of Aeronautics Branch, U. S. Department of Commerce

Taking the records for the first six months of 1929 and comparing them with the same period in 1928, there is shown a total mileage flown of 56,201,338, which is three times the first six months of 1928.

The safety record during these periods is as follows:

Scheduled Air Transport

1929—Mileage per *fatal* accident	1,022,371
1928—Mileage per *fatal* accident	896,922
1929—Mileage per *all* accidents	153,306
1928—Mileage per *all* accidents	128,132

All Classes Civil Aircraft Operators

1929—Mileage per accident	72,612
1928—Mileage per accident	38,337

Causes of Accidents

Personnel	59.04%
Power Plant Failure	18.08%
Airplane Structural Failure	8.80%
Miscellaneous (weather, airport and terrain, doubtful, etc.)	9.35%

Production of Aircraft and Engines

	Airplanes Number	Airplanes Value	Engines Number	Engines Value
1921	302	$4,133,108		
1922				
1923	587	7,737,069		
1924				
1925	789	6,673,659		
1926	1186	8,871,027		
1927	1995	14,514,999		
1928	4346	38,990,509	3496	$19,915,624
1929	6034	44,457,301	7378	26,495,830
1929[1]	3381[1]	23,685,572[1]	3826[1]	14,349,375[1]
1930[1]	1415[1]	11,046,056[1]	2052[1]	8,345,778[1]

In 1928 repair work on airplanes and engines by manufacturers amounted to $904,176 and the value of the parts used in repair work was $7,526,763. In 1929 and 1930 the repair shops and service stations throughout the country took over a large share of this business from the manufacturers.

[1]First six months only.

Digitized by Google

DISCOUNT, NET PROFIT AND MARK-UP TABLES

Discount Tables

Showing net of $1.00 after discounts in top row and first column have been taken off.

Rate %	5	7½	10	12½	15	20	25	30	33 1/3	35	40	45	50	55	60	65	66 2/3	70	75	80	85	87½	90
2½	.92625	.90188	.8775	.85313	.82875	.78	.73125	.6825	.65	.63375	.585	.53625	.4875	.43875	.39	.34125	.325	.2925	.24375	.195	.14625	.12188	.0975
5	.9025	.87875	.855	.83125	.8075	.76	.7125	.665	.63333	.6175	.57	.5225	.475	.4275	.38	.3225	.31667	.285	.2375	.19	.1425	.11875	.095
5 2½	.87994	.85678	.83363	.81047	.78731	.741	.69469	.64838	.6175	.60206	.55575	.50944	.46313	.41681	.3705	.32419	.30875	.27788	.23156	.18525	.13894	.11578	.09263
5 5	.85738	.83481	.81225	.78969	.76713	.722	.67688	.63175	.60167	.58663	.5415	.49638	.45125	.40613	.361	.31588	.30083	.27075	.22563	.1805	.13583	.11281	.09025
5 5 2½	.83594	.81394	.79194	.76995	.74795	.70395	.65995	.61596	.58663	.57196	.52796	.48397	.43997	.39597	.35198	.30789	.29331	.26398	.21998	.17599	.13199	.10999	.08799
7½		.85563	.8325	.80938	.78625	.74	.69375	.6475	.61667	.60125	.555	.50875	.4625	.41625	.37	.32375	.30833	.2775	.23125	.185	.13875	.11563	.0925
7½ 2½		.83423	.81169	.78914	.76659	.7215	.67641	.63131	.60125	.58622	.54113	.49603	.45094	.40584	.36075	.31566	.30063	.27056	.22547	.18038	.13528	.11273	.09019
7½		.81284	.79088	.76891	.74694	.703	.65906	.61513	.58583	.57119	.52725	.48331	.43938	.39544	.3515	.30756	.29292	.26363	.21969	.17575	.13181	.10984	.08788
10			.81	.78750	.765	.72	.675	.63	.6	.585	.54	.495	.45	.405	.36	.315	.3	.27	.225	.18	.135	.1125	.09
10 2½			.78975	.76781	.74588	.702	.65813	.61425	.585	.57038	.5265	.48263	.43875	.39488	.351	.30713	.2925	.26325	.21938	.1755	.13163	.10969	.08775
10 5			.7695	.74813	.72675	.684	.64125	.5985	.57	.55575	.513	.47025	.4275	.38475	.342	.29925	.285	.2565	.21375	.171	.12825	.10688	.0855
10 5 2½			.75026	.72942	.70858	.6669	.62522	.58354	.55575	.54186	.50018	.45849	.41681	.37513	.33345	.29177	.27788	.25009	.20841	.16673	.12504	.1042	.08336
10 7½			.74925	.72844	.70763	.666	.62438	.58275	.555	.54113	.4995	.45788	.41625	.37463	.333	.29138	.2775	.24975	.20813	.1665	.12488	.10406	.08325
10 10			.729	.70875	.6885	.648	.6075	.567	.54	.5265	.486	.4455	.405	.3645	.324	.2835	.27	.243	.2025	.162	.1215	.10125	.081
10 10 5			.69256	.67331	.65408	.6156	.57713	.53865	.513	.50018	.4617	.42323	.38475	.34628	.3078	.26933	.2565	.23085	.19238	.1539	.11543	.09619	.07695
10 10 5 2½			.67524	.65648	.63772	.60021	.5627	.52518	.50018	.48767	.45016	.41264	.37513	.33762	.3001	.26259	.25009	.22508	.18757	.15005	.11254	.09378	.07503

Example: To find the decimal equivalent of a chain discount of, for instance, 50, 10 and 5 per cent, find the column headed 50 and at the junction of this column with the row marked 10-5 the decimal equivalent of .4275 is found. By the same procedure the decimal equivalent of 30-5 and 2½ per cent is found to be .64838.

Net Profit Table

Giving the net profit when the overhead and the percentage of increase of selling price over cost are known.

Per Cent	25	33⅓	40	50	60	75	100
10	10	15	18⅔	23⅓	27½	32⅞	40
11	9	14	17⅞	22⅓	26½	31⅞	39
12	8	13	16⅔	21⅓	25½	30⅞	38
13	7	12	15⅔	20⅓	24½	29⅞	37
14	6	11	14⅔	19⅓	23½	28⅞	36
15	5	10	13⅔	18⅓	22½	27⅞	35
16	4	9	12⅔	17⅓	21½	26⅞	34
17	3	8	11⅔	16⅓	20½	25⅞	33
18	2	7	10⅔	15⅓	19½	24⅞	32
19	1	6	9⅔	14⅓	18½	23⅞	31
20	0	5	8⅔	13⅓	17½	22⅞	30
21	—1	4	7⅔	12⅓	16½	21⅞	29
22	—2	3	6⅔	11⅓	15½	20⅞	28
23	—3	2	5⅔	10⅓	14½	19⅞	27
24	—4	1	4⅔	9⅓	13½	18⅞	26
25	—5	0	3⅔	8⅓	12½	17⅞	25

Explanation and Example

The overhead is given in per cent in the left hand column of the Net Profit table and the percentage of increase of selling price over cost is given in the top line. The net profit is then found at the intersection of the two lines.

Example: If your overhead is 20 per cent and you add 50 per cent to the cost of a certain article then the net profit is found to be 13⅓ per cent. On the other hand if the overhead is 25 per cent and a 12½ per cent net profit is desired 60 per cent must be added to the cost price.

Locate in the columns headed A in the Mark-Up tables the per cent of gross profit desired and in the adjacent B column is given the per cent necessary to add to the cost to obtain the desired profit.

Example: To obtain a gross profit of 33⅓ per cent it is necessary to mark up the cost price 50 per cent.

Mark-Up Table

Giving the amount in per cent it is necessary to add to the cost of an article to obtain a certain gross profit.

A Per Cent Gross Profit	B Per Cent Add to Cost	A Per Cent Gross Profit	B Per Cent Add to Cost	A Per Cent Gross Profit	B Per Cent Add to Cost
4¾	5	19	23.46	35	53.85
5	5.26	20	25.00	35½	55.00
7½	8.10	21	26.58	37½	60.00
9	10.0	22	28.21	39½	65.00
10	11.11	23	29.88	40	66.66
11⅛	12.5	24	31.58	41	70.00
12½	14.28	25	33.33	42¾	75.00
14¼	16.66	26	35.00	44½	80.00
15	17.65	28½	40.00	46	85.00
16⅔	20.00	30	42.86	47½	90.00
17	20.49	31	45.00	50	100.00
18	21.96	33⅓	50.00	..	....

Digitized by Google

1929 Exports of Automotive Products*

COUNTRIES	Shock Absorbers and Stabilizers		Bumpers		Horns, Hand and Electric		Accessories	Asbestos Brake Lining		Starting Lighting & Ignition Equipment	Parts for Replacement	Tire Service Equipment	Other Service Equipment	Electric Machine Tools	Wrenches	Automotive Polishes	
	No.	Dollars	No.	Dollars	No.	Dollars	Dollars	Lin. Ft.	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Pounds	Dollars
EUROPE:																	
Austria	25	464	.....	.....	145	186	14,798	49,198	9,347	19,367	171,342	569	13,255	.....	606	4,592	1,151
Belgium	92	1,104	686	3,202	2,344	8,060	36,315	60,007	12,119	47,621	2,732,786	7,870	90,519	.....	6,119	45,643	14,536
Bulgaria	.....	.....	.....	.....	.....	.....	1,774	11,277	2,128	660	15,654	757	135	.....	111	739	141
Czechoslovakia	70	849	.....	.....	60	572	8,516	1,484	275	39,937	104,944	905	10,587	101	12	17,055	3,943
Denmark	36	189	2	18	2,016	3,524	66,348	146,075	32,630	18,745	1,728,954	8 762	38,326	1,149	1,790	26,592	5,786
Finland	209	1,308	.....	.....	340	612	19,725	96,949	26,393	11,255	403,753	2,233	7,289	.....	1,168	3,751	1,339
France	46	333	.....	.....	9,677	20,441	158,979	144,267	29,471	767,875	1,684,789	10,926	231,456	.....	22,385	56,445	15,016
Germany	389	1,611	502	2,580	4,166	13,408	159,320	110,206	19,161	119,469	4,222,559	17,178	2,071,392	2,776	5,851	32,734	10,580
Greece	.....	.....	104	520	89	670	13,082	76,838	19,641	5,825	211,548	1,947	9,146	.....	102	5,706	1,639
Hungary	.....	.....	.....	.....	.....	.....	7,017	35,608	8,580	4,941	73,467	20	10,008	34	.....	10,934	1,811
Irish Free State	.....	.....	.....	.....	.....	.....	1,992	534	297	408	259,978	30,663	82,942	.....	13	1,404	302
Italy	68,476	214,794	128	1,766	1,628	2,122	56,614	332,978	38,816	167,523	374,417	10,031	325,578	2,255	2,387	37,592	6,674
Latvia	20	57	24	95	97	398	567	503	92	.....	41,078	46	219	.....	.....	.....	.....
Netherlands	95	923	114	818	428	1,446	54,307	66,895	12,953	24,495	788,811	3,742	82,769	55	5,693	16,264	5,776
Norway	112	1,038	.....	.....	268	903	23,413	27,636	6,730	15,117	192,731	2,972	64,078	.....	2,648	7,079	1,285
Poland and Danzig	39	228	.....	.....	51	310	9,324	3,280	541	22,355	505,305	12,418	47,579	375	291	1,404	299
Portugal	35	556	110	582	22	167	19,329	14,888	3,131	7,703	203,180	2,390	8,246	44	798	1,744	446
Rumania	24	93	30	270	312	567	7,376	13,480	7,152	9,709	240,975	1,030	7,843	287	1,310	8,013	2,576
Sov. Russia in Europe	20	217	400	2,994	10	31	15,674	2,474	600	385,715	472,117	20,376	178,504	2,574	85	.....	.....
Spain	50	100	248	3,314	2,370	5,199	74,101	50,547	11,747	56,811	2,358,339	22,448	55,665	1,467	8,487	28,248	8,732
Sweden	4,565	8,704	.....	.....	123	249	64,194	282,848	49,689	48,751	1,163,903	4,113	59,220	164	3,425	4,314	955
Switzerland	167	1,204	218	1,274	195	569	22,818	25,154	4,940	20,332	144,287	572	10,556	.....	4,591	10,919	2,694
United Kingdom	2,671	25,488	16	130	1,288	4,104	198,560	44,259	14,160	43,090	.....	58,487	1,336,266	11,350	17,355	115,579	43,652
Miscellaneous—Europe	.....	.....	8	96	16	148	7,212	21,313	4,501	5,165	107,507	1,313	3,798	441	.....	2,806	887
NORTH AMERICA:																	
Canada	212,615	396,170	24,984	106,888	42,602	110,739	3,522,939	1,118,834	183,954	2,386,701	9,678,615	177,375	913,602	14,059	62,268	113,912	23,452
Central America	373	3,500	184	1,961	1,412	4,562	67,250	38,611	10,372	40,932	745,403	19,453	50,789	264	4,094	19,716	6,059
Mexico	130	1,348	503	3,203	1,918	5,120	152,872	194,697	48,044	33,590	948,038	18,168	86,747	251	5,915	11,791	4,476
West Indies	21	201	85	1,068	658	2,509	22,176	42,790	9,236	4,365	329,216	3,495	30,169	32	950	13,110	4,172
Cuba	99	1,251	2,380	11,732	1,128	3,119	48,975	166,307	50,984	43,214	863,462	10,400	47,263	353	2,359	24,802	5,165
Dominican Republic	16	178	2	23	301	812	12,140	9,196	3,164	103	81,881	2,017	11,212	.....	577	940	398
Dutch West Indies	14	65	10	109	103	712	13,716	3,320	695	3,633	110,510	1,203	5,747	.....	340	3,922	1,023
Haiti, Republic of	34	325	2	17	50	253	7,404	6,669	1,595	538	57,333	1,210	9,690	64	184	1,465	547
Miscellaneous—North America	83	504	10	137	96	140	11,501	3,203	715	3,516	76,200	356	12,615	.....	190	1,007	327
SOUTH AMERICA:																	
Argentina	4,600	22,677	291	4,475	2,157	8,692	643,578	390,847	99,361	77,004	5,857,465	61,781	438,296	3,044	48,461	65,422	21,318
Bolivia	360	841	.....	.....	62	174	3,105	6,367	1,916	1,656	69,425	751	5,635	...	80	54	22
Brazil	604	2,828	1,423	9,790	4,082	16,684	321,626	845,901	133,547	24,272	3,360,655	52,838	829,674	2,697	10,236	34,271	8,678
Chile	982	8,870	1,240	7,794	2,320	8,338	97,324	114,886	31,187	24,716	1,214,717	27,087	103,256	209	5,622	7,662	2,359
Colombia	46	196	509	3,454	2,509	9,708	110,321	85,338	24,430	14,436	767,807	9,866	47,381	522	3,542	12,288	4,519
Ecuador	8	26	15	168	83	266	5,783	14,828	3,456	994	31,390	1,905	1,213	.....	.....	.....	.....
Paraguay	.....	.....	.....	.....	29	100	6,869	5,520	1,098	182	35,789	.....	595	.....	...	124	71
Peru	88	704	278	1,019	651	2,371	37 449	34,486	8,942	12,475	361,140	10,578	13,879	430	18	410	58
Uruguay	132	1,041	5	138	1,904	7,001	106,168	95,092	22,166	8,674	606,479	5,854	146,841	33	1,731	5,946	1,967
Venezuela	125	444	670	3,376	3,563	16,038	96,618	122,400	41,008	34,576	413,573	5,620	99,493	58	3,714	13,208	4,486
ASIA:																	
Aden	.....	.....	3	24	37	87	1,675	1,097	183	409	8,006	944	189	.....	.....	.....	.....
Arabia	.....	.....	.....	.....	.....	.....	204	.....	.....	.....	7,249	.....	.....	.....	21	110	30
British East Indies	16	115	1,399	8,306	3,426	11,741	217,736	365,725	73,162	20,933	2,886,375	21,897	67,359	.....	106	.....	.....
China	44	198	2	4	2,437	4,583	56,344	72,334	13,004	26,592	541,178	4,724	72,609	656	5,609	3,169	883
Hong Kong	.....	.....	21	226	352	976	12,717	19,693	4,040	4,548	103,483	1,015	12,925	.....	18	2,394	676
Japan	7,737	54,239	148	1,402	15,227	48,976	135,058	637,964	133,601	131,902	2,561,527	46,139	118,334	3,323	16,847	20,035	5,511
Kwantung	9	35	11	58	385	831	4,024	2,080	512	2,799	50,983	290	3,653	309	521	665	141
Palestine	.....	.....	.....	.....	.....	.....	2,336	2,100	627	2,334	37,795	196	201	.....	59	108	26
Persia	.....	.....	.....	.....	74	401	3,225	747	142	1,983	193,682	624	293	.....	149	.....	.....
Philippine Islands	4	99	66	1,069	3,473	10,639	61,896	175,691	46,289	39,613	893,375	2,313	39,611	361	7,503	16,328	5,715
Siam	.....	.....	24	149	193	545	8,625	16,079	3,669	6,407	114,328	390	4,163	.....	962	6,796	1,291
Sov. Russia in Asia	.....	.....	20	120	.....	.....	.....	.....	.....	.....	7,895	.....	7,758	.....	.....	.....	.....
Syria	.....	.....	256	1,421	128	328	6,709	26,432	4,530	7,120	167,330	420	6,094	416	187	814	231
Turkey in Asia	98	963	.....	.....	319	1,592	10,749	4,510	1,866	5,365	350,605	43,124	30,217	.....	.....	.....	.....
Miscellaneous—Asia	12	43	895	4,789	3,793	12,608	157,286	273,392	50,654	35,177	1,465,630	3,850	47,729	340	2,394	41,774	10,881
OCEANIA:																	
Australia	2,026	6,825	6	38	5,268	10,765	529,137	545,242	117,632	24,420	3,355,046	81,759	207,127	6,201	43,486	179,765	36,505
British Oceania	.....	.....	9	131	258	616	11,257	3,177	725	1,010	18,805	96	1,102	.....	469	500	212
French Oceania	.....	.....	6	68	4	82	1,336	850	179	139	8,562	167	25	.....	76	150	64
New Zealand	28	78	488	1,788	1,578	3,030	262,791	200,703	40,262	5,099	1,043,975	6,487	167,102	969	10,530	25,127	5,924
AFRICA:																	
Belgian Congo	.....	.....	86	671	.....	.....	921	2,523	1,495	1,895	96,576	384	935	.....	946	.....	.....
Union of So. Africa	1,585	8,966	345	1,764	5,644	11,041	131,226	75,156	16,047	22,934	1,830,789	12,131	133,252	1,486	15,300	78,178	20,002
Egypt	8	35	48	259	463	1,545	11,858	15,797	2,773	9,816	1,000,878	4,117	8,497	1,060	586	5,201	1,635
French Africa	.....	.....	.....	.....	.....	.....	3,177	250	66	1,328	165,723	22	797	40	75	370	115
Morocco	.....	.....	2	22	280	691	5,475	5,802	891	13,690	236,897	484	3,201	.....	509	132	43
Canary Islands	.....	.....	36	423	.....	.....	7,659	1,314	338	600	36,340	605	619	.....	105	415	194
Miscellaneous—Africa	.....	.....	418	1,461	152	706	80,945	65,664	16,709	16,099	877,889	2,657	27,389	.....	5,603	15,165	3,877
Total	309,050	772,030	39,714	198,104	134,792	382,827	8,056,089	7,433,409	1,520,585	3,943,911	66,026,307	866,743	6,898,168	62,091	364,519	1,261,092	344,903
Shipments to non-contiguous territories																	
Hawaii	564	4,309	1,959	9,213	1,132	5,350	85,631	76,572	22,146	34,239	647,746	1,811	43,432	219	1,596	32,056	8,884
Porto Rico	56	420	238	1,720	1,426	5,447	31,810	51,664	13,100	5,456	249,754	5,651	32,305	142	1,165	8,494	2,032
Grand Total	309,670	776,759	41,911	209,037	137,350	393,624	8,173,530	7,561,645	1,555,831	3,989,411	66,923,807	874,205	6,973,905	62,452	367,280	1,301,642	355,819

*As of January 1, 1930, from U. S. Bureau Foreign and Domestic Commerce, Automotive Division (Subject to Revision).

15-Year Record of Total Foreign Consumption of Motor Vehicles of U. S. Design

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930*
U. S. Exports (including foreign assembly)	27,574	67,373	85,364	85,092	51,260	56,389	177,297	60,739	125,880	240,091	293,115	428,564	393,600	462,880	582,764	734,211	348,536
Canadian Production	.....	.....	.....	93,810	82,408	87,835	94,144	66,246	102,053	146,438	135,246	161.389	204,727	178,427	242,382	263,295	138,622
TOTAL Foreign Consumption	27,574	67,373	85,364	178,902	133,668	144,224	271,441	126,933	227,980	386,529	428,361	589,953	598,327	641,307	825,146	997,506	487,158

*First nine months only.

Digitized by Google

Data on Selected Foreign Automotive Markets

Including Number of Trade Outlets, Chief Distributing Centers Registration, Chief Ports of Entry, Peak Sales Seasons, etc.

Country	Registration Motor Vehicles				Per Cent American Vehicles in Service			Relative Standing of Foreign Countries as U. S. Automotive Markets						Peak Sales Season for Automobiles	Chief Distributing Centers	Trade Outlets*			Chief Ports of Entry	Commercial Language Used	Total Highway Mileage
	Total	Passenger Cars	Buses	Trucks	Passenger Cars	Buses	Trucks	All Automotive Products	Service Equipment	Passenger Cars	Motor Trucks	Accessories	Replacements			Wholesalers	Retailers	Agents			
Argentina	358,625	296,990	2,700	58,935	97.5	97.5	97.5	1	3	2	1	22	2	Oct. to March	Buenos Aires	55	10	12	Bahia Blanca, Buenos Aires, Rosario	Spanish	66,065
Australia	570,000	460,000	.....	110,000	84	83	85	2	7	3	2	3	5	Oct. to Dec.	Sydney, Melbourne, Adelaide, Brisbane, Perth	97	20	53	Adelaide, Brisbane, Freemantle, Melbourne, Sydney	English	300,000
Belguim	140,328	78,950	934	40,444	50	50	50	5	22	5	6	19	7	May to Oct.	Antwerp, Brussels	44	11	19	Antwerp, Ghent	French Flemish	16,840
Brazil	188,349	124,424	.....	63,925	98	98	98	3	2	6	3	....	6	Sept. to Jan.	Rio de Janeiro	63	33	22	Rio de Janeiro, Santos	Portuguese	70,372
Canada	1,169,445	1,012,298	1,783	146,450	.....	.....	.....	x	1	1	4	2	1	March to Oct.	Montreal, Toronto, Halifax, Winnipeg, Vancouver	205	209	42	Halifax, Montreal, Quebec, Vancouver	English French (Que.)	381,977
Chile	35,000	21,000	.....	14,000	95	95	95	15	13	15	13	....	15	Sept. to Feb.	Santiago	27	58	....	Antofagasta, Iquique Valparaiso	Spanish	24,319
China inc. Hong Kong	32,589	21,847	3,386	7,356	76	76	80	21	....	35	21	21	....	April to Nov.	Shanghai, Hong Kong, Canton, Hankow	74	29	16	Shanghai, Hong Kong	English	17,746
Dutch East Indies	70,883	55,726	.....	15,157	97	85	95	16	....	14	10	8	17	Sept. to April		12	9	....	Balik Marassar	Dutch English	36,175
Germany	609,030	458,060	.....	150,970	20	20	20	9	8	10	....	4	3	March to Oct.	Berlin, Frankfort, Hamburg, Munich	171	595	....	Bremen, Hamburg	German	216,672
India	164,275	125,922	.....	38,353	79	75	92	11	....	11	8	....	10	Nov. to March	Calcutta, Bombay, Karachi, Rangoon	70	65	11	Bombay, Calcutta, Karachi, Madras	English	283,506
Italy	230,509	173,242	7,928	49,339	8	8	8	24	11	36	....	....	....	Sept. to March	Milan, Turin, Rome, Naples, Genoa	185	118	....	Genoa, Naples, Trieste, Venice	Italian	116,027
Japan	90,465	56,545	.....	33,920	92.5	92.5	92.5	6	14	20	15	1	8	May to Oct.	Yokohama, Nagaya, Osaka, Kobe	22	3	164	Kobe, Nagasaki, Osaka, Yokohama	English	575,325
Malaya	37,482	30,549	.....	6,933	75	75	75	23	....	39	....	....	....	Oct. to May		37	11	7	Penang, Port Swettenham, Singapore	English	6,791
Mexico	80,653	60,990	4,999	14,664	99	99	99	12	16	8	11	20	19	April to Oct.	Mexico City, Monterey	64	157	....	Guayamas, Tampico, Vera Cruz, Progreso	Spanish	62,137
Netherlands	98,428	61,928	.....	36,500	74	70	80	19	20	21	....	7	22	May to Oct.	Rotterdam, Amsterdam	48	4	6	Amsterdam, Rotterdam	Dutch	15,534
New Zealand	173,815	143,844	1,263	28,708	82.5	80	92.5	10	12	13	18	11	16	Sept. to April	Auckland, Christchurch, Wellington	36	8	5	Auckland, Dunedin, Lyttelton, Wellington	English	48,146
Philippine Islands	32,000	21,926	.....	10,074	100	100	100	18	....	24	14	9	20	Sept. to March	Manila	36	30	....	Cavite, Ceba, Iloilo Manila	English	7,373
Poland	38,319	25,621	4,418	7,280	60	60	60	22	....	38	25	18	....	July to Sept.	Warsaw, Poznan, Katowice	66	18	4	Danzig, Gdynia	Polish English	139,631
South Africa, Union of	141,674	126,002	1,200	14,472	85.5	85.	90	7	9	4	12	12	11	.....	Capetown, Johannesburg, Durban, Port Elizabeth	51	83	....	Capetown, Durban, East London, Port Elizabeth	English	85,598
Spain	178,176	129,668	.....	48,508	61	58	70	8	19	9	7	....	9	March to Sept.	Barcelona, Cadiz, Madrid, Malaga, Seville	89	37	87	Barcelona, Bilboa, Valencia	Spanish	54,114
Sweden	144,519	104,368	.....	40,151	90	90	90	14	21	7	9	5	14	March to Aug.	Stockholm, Guteborg, Malmo	67	10	17	Guteborg, Malmo, Stockholm	Swedish English	80,778
Switzerland	70,650	57,700	.....	12,950	45	45	45	25	24	25	....	....	....	March to Sept.	Berne, Geneva, Lausanne	25	14	5		German French Italian	9,321
United Kingdom	1,370,711	951,355	100,500	318,256	15	15	15	4	4	12	5	13	4	March to Sept.	London, Liverpool, Glasgow, Belfast	162 8	65	80	Liverpool, London, Belfast, Glasgow, Hull	English	179,095
Uruguay	43,825	35,968	871	6,986	97.5	97.5	97.5	17	10	17	16	....	....	Aug. to Jan.	Montevideo	16	19	3	Montevideo	Spanish	22,043
Venezuela	17,500	11,500	.....	6,000	99	99	99	20	18	22	22	....	....	Sept. to Jan.	Caracas, Maracaibo		9	1	La Guaira, Maracaibo	Spanish	2,211

x—Canada is not counted here as a foreign country.

*—There is considerable duplication in these three columns, as many agencies in foreign countries function in several capacities—importing, jobbing, retailing, etc. These counts are based on the names in the files of the Commercial Intelligence Division of the U. S. Department of Commerce.

Digitized by Google

INTERCHANGEABLE DATA SECTION

Copyright, 1930, by Chilton Class Journal Company

Showing for the First Time Interchangeability Between 100 Different Parts in the Following Tables

ENGINE PARTS, Pages 201-220

BEARINGS, Pages 221-241

IGNITION PARTS, Pages 242-253

GENERATOR PARTS, Pages 254-259

BRAKES, Pages 260-279

RIVETS, Pages 280-281

UNIVERSAL JOINTS, Pages 282-288

CLUTCH PARTS, Pages 289-293

TRANSMISSION PARTS, Pages 289-293

AXLES, Pages 294-299

COOLING SYSTEM, Pages 300-305

BODY PARTS (Make Only), Pages 306-308

For detailed index to individual parts included here see next page

USES YOU CAN MAKE OF THE DATA HERE

To find what other car models use a part that is interchangeable with the one you seek for the car you are servicing.

To order a particular part of a particular model from a manufacturer when that manufacturer gives you his own parts numbers alongside the corresponding Chilton numbers in his adv., as pages 203, 211, 247.

To check your inventory of parts by comparing it with the need revealed by interchangeability of parts on various models.

To make up parts catalogs of all items carried in stock, by checking interchangeability here against manufacturers numbers.

To compare one vehicle model using a certain part with other vehicle models using the same part.

To increase the market for various parts and sizes by counting the car models that use the same part and their registration—local, sectional, national.

To check duplication of parts you may be stocking or manufacturing.

On bearings, rivets and molded brake lining, to find actual manufacturers numbers of the part desired.

To make it more possible to get original parts from other dealers as well as interchangeable parts of other makes, as the data here indicates the sources.

To determine immediately how many other car models use the same part as in the car you have in mind.

The jobber, with an order from a repair shop for a part he does not stock, can determine here if he has another part which he does stock and which is interchangeable.

For Serial Numbers of Cars See Pages 310-313
For Sizes of Replacement Parts See Pages 314-341
as indexed in detail on next page and page 309

Digitized by Google

DETAILED INDEX

TO PARTS INCLUDED IN

TABLES OF INTERCHANGEABILITY

For Detailed Index to All Contents, See Pages 7, 9

A

Adjusting Screws, Valve Lifter.. 216-220
AXLE TABLE (Front and Rear) 294-299
Axle Shafts 294-299

B

BALL BEARING TABLES 221-241
Bearing Manufacturer's Numbers. 235-240
BEARINGS, Ball and Roller.....221-241
Bearings, Center Main 202-209
Bearings, Front Main 202-209
Bearings, Intermediate Main 202-209
Bearings, Rear Main 202-209
Belts, Fan 300-305
Brake Articulating Pins 260-267
BODY PARTS LIST 306-308
Brake Carrier Brackets 260-267
Brake Control Shaft and Carrier Bracket Assembly 260-267
Brake Eccentric Adjusting Cams 260-267
Brake Operating Cams 260-267
Brake Primary and Auxiliary Shoe Springs 260-267
Brake Anchor Pins or Studs 268-271
Brake Cylinder Castings 268-271
Brake Hose Assembly 268-271
BRAKE LINING TABLE (Molded) 272-279
Brake Master Cylinder 268-271
Brake Piston Boot 268-271
Brake Piston Cups 268-271
BRAKE TABLE (Bendix) 260-267
BRAKE TABLE (Lockheed Hydraulic) 268-271
Brake Shoe Assembly 260-267
Brake Shoe or Band Return Springs 268-271
Brake Shoes, Front and Rear ... 268-271
Brake Wheel Cylinder Assembly, Front 268-271
Breaker Arm, Distributor 242-253
Brushes, Generator 254-259
Bushings, Camshaft Front 210-215
Bushings, Steering Knuckle Pivot 294-299
Bushings, Water Pump 300-305
Bushings or Balls, Universal Joints 282-288
Bushings, Piston Pin 202-209

C

Camshafts 210-215
Camshaft Chains 210-215
Camshaft Front Bushings 210-215
Camshaft Gears or Sprockets ... 210-215
Cap, Distributor 242-283
Caps, Gasoline Tank Filler 282-288
Caps, Radiator Filler 300-305
Chains, Timing 210-215
Clutch Discs 289-293
Clutch Facing 289-293
Clutch Shafts 289-293
CLUTCH TABLE 289-293
Coils, Generator Field 254-259
Coils, Ignition 242-253
Condensers 242-253
Connecting Rods 202-209
COOLING SYSTEM TABLE 300-305
Countershaft Gears 289-293
Crankshafts 210-215
Crankshaft Gears or Sprockets .. 210-215
Cylinder Heads 210-215

D

Differential Cases 294-299
Differential Pinions and Ring Gears 294-299
Differential Side Gears 294-299
Differential Spiders or Cross Pins 294-299
Differential Spider Pinions 294-299
Discs, Clutch 289-293
Discs, Propeller Shaft 282-288
Distributor Caps 242-253
Distributor Contact or Breaker Arms 242-253
Distributor Contact Screws 242-253
Distributor Rotors 242-253
Distributor Shaft Gears 242-253

E

ENGINE ASSEMBLY TABLE .. 202-220

F

Fan Belts 300-305
Field Coils, Generator 254-259
Flywheel Starter Gears 216-220
FRONT AXLE TABLE 294-299

G

Gasoline Tank Filler Caps 282-288
Gears, Distributor Shaft 242-253
Gears, Transmission 289-293
Gears or Sprockets, Camshaft .. 210-215
Gears or Sprockets, Crankshaft.. 210-215
Gears or Sprockets, Generator .. 254-259
Gears, Countershaft 289-293
Gears, Differential Pinion and Ring 294-299
Gears, Differential Side 294-299
Gears, Oil Pump 216-220
Gears, Starter 216-220
Generator Chains 210-215
Generator Brushes 254-259
GENERATOR TABLE 254-259

I

IGNITION SYSTEM TABLE ... 242-253
Impeller, Water Pump 300-305

L

LOCKHEED HYDRAULIC BRAKE TABLE 268-271

M

MOLDED BRAKE LINING TABLE 272-279
Mufflers 210-215

N

Nuts, Water-Pump Gland 300-305

O

Oil Pans 210-215

P

Pinions, Differential 294-299
Pins, Piston 202-209
Pistons 202-209
Piston Pin 202-209
Pump, Water (Assembly and Parts) 300-305

R

Radiator Filler Caps 300-305
REAR AXLE TABLE 294-299
Resistance Units, Ignition 242-253
RIVET TABLE 280-281
Rods, Connecting 202-209
ROLLER BEARING TABLE 221-234
Rotors, Distributor 242-253

S

Screw, Distributor Contact 242-253
Screw, Valve-Lifter Adjusting .. 216-220
Shafts, Axle 294-299
Shafts, Clutch 289-293
Shaft, Water Pump 300-305
Sleeve Yokes on Propeller Shaft 282-288
Spider, Differential 294-299
Springs, Starting Motor Drive ... 254-259
Springs, Valve 216-220
Starter Gears on Flywheels 216-220
Starting Motor Springs 254-259
Steering Knuckle Pivots 294-299
Steering Knuckle Pivot Bushings 294-299

T

Tank Filler Cap, Gasoline 282-288
Timing Chains 210-215
TRANSMISSION TABLE 289-293
Transmission Countershaft Gears 289-293
Transmission High and Intermediate Sliding Gears 289-293
Transmission Low and Reverse Sliding Gears 289-293

U

Universal Flange Yokes, Front and Rear 282-288
Universal Joint Assembly, Front and Rear 282-288
Universal Joint Body or Inside Casing 282-288
Universal Joint Bushings or Balls 282-288
Universal Joint Casing, Outside . 282-288
Universal Joint Journal or Pins . 282-288
UNIVERSAL JOINTS TABLE .. 282-288

V

Valves, Exhaust 216-220
Valves, Inlet 216-220
Valve, Lifter (Tappets) 216-220
Valve Lifter Adjusting Screws .. 216-220
Valve Springs 216-220
Valve Stem Guides 216-220

W

Water Pump Body Assembly 300-305
Water Pump Bushings 300-305
Water Pump Gland Nuts 300-305
Water Pump Impellers 300-305
Water Pump Shafts 300-305
Water Pump Shaft Bushings ... 300-305

Y

Yokes, Sleeve (on Propeller Shaft) 282-288

INDEX TO TABLES OF PARTS SIZES

(For Detailed Index to Other Replacement Service Data, See Page 309)

Brake Lining Sizes 329-335
Bulb Numbers, Headlight, Etc. . 336-337
Bushing Sizes, Piston Pin 314-320
ENGINE PARTS SIZES 314-320
Exhaust Pipe Diameters 338
Headlight Lens Diameters 336
Lamp Numbers, Mazda 337
Lens Diameters, Headlight 336
Lining Sizes, Brake 329-335
Piston Pin Sizes 314-320
Piston Ring Sizes 314-320
Piston Sizes 314-320
Serial Numbers, Car 310-313
Valve Sizes, Engine 314-320

Digitized by Google

ENGINE ASSEMBLY

Presented in

THREE SECTIONS

Showing Data on 25 Separate Parts, Including Mufflers, for Passenger Cars from 1925 to 1930, Inclusive

ENGINE PARTS INCLUDED HERE

Section 1

Cylinder Head
Oil Pan
Camshaft
Camshaft Front Bushing
Camshaft Gear or Sprocket
Crankshaft
Crankshaft Gear or Sprocket
Timing Chain
Muffler

Section 2

Front Main Bearing
Center Main Bearing
Rear Main Bearing
Intermediate Main Bearing
Piston
Piston Pin
Piston-Pin Bushing
Connecting Rod

Section 3

Oil-Pump Gears
Inlet Valve
Exhaust Valve
Valve-Stem Guide
Valve Spring
Valve Lifters (Tappets)
Valve Lifter Adjusting Screw
Starter Gear on Flywheel

For Interchangeability on Ignition System Parts, See Pages 242 to 259
For Sizes of Pistons, Rings, Pins and Bushings, See Pages 313 to 319

Digitized by Google

Engine Assembly

IN THREE SECTIONS—SECTION 1

See Preceding Page for List of Engine Parts Included

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the part is needed.
2. Follow this line across to the column pertaining to that part.
3. In this part column opposite your car model you will find the CHILTON NUMBER for the part you want. (The figure in parentheses tells you how many times you can find this CHILTON NUMBER in this column.)
4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from a local repair shop or a nearby jobber.

Example: Suppose a Piston Pin is needed for a Durant D-55 (1928) car. Locate this car in first column. Follow across to the column on Timing Chains, which is the seventh column. Here you see the CHILTON NUMBER for this part is GM-42. The figure eight (8) in parentheses means that this CHILTON NUMBER occurs eight times in this column, indicating that seven or more other car models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number GM-42 opposite the Davis 93, Durant 6-60, Flint Jr., Jewett New Day, and others. The Timing Chains used in all these cars are interchangeable with the one in your Durant D-55 (1928) car.

For Engine Parts Sizes, See Page 314. For Interchangeable Data on Ignition System Parts, See Page 242

Car Make and Model	CRANKSHAFT MAIN BEARINGS				PISTON AND CONNECTING ROD ASSEMBLY			
	Front Main Bearing	†Center Main Bearing	Rear Main Bearing	‡Intermediate Main Bearings	Piston (See Footnote)	Piston Pin (See Footnote)	Piston Pin Bushing	Connecting Rod
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Ajax (Nash L6).....(1925-26)	GKA-1 (2)	GKB-1 (2)	GKC-1 (2)	GKD-1 (2)	GL-1 (2)	GM-1 (2)	GN-1 (2)	GO-1 (2)
Anderson 41, Cont. 7U..(1925)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-2 (7)	GM-2 (11)	GN-2 (11)	GO-2 (11)
Anderson 50, Cont. 8R..(1925)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Apperson 6, Velie 50....(1925)	GKA-4 (2)	GKB-4 (2)	GKC-4 (2)	None	GL-186 (2)	GM-154 (4)	GN-155 (8)	GO-6 (2)
Apperson Str. 8, Lyc. 2H(1925)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-5 (6)	GM-5 (4)	GN-4 (66)	GO-5 (6)
Auburn 4, Lyc. CF.....(1925)	GKA-6 (6)	GKB-6 (6)	GKA-6 (6)	GKD-6 (6)	GL-6 (6)	GM-6 (6)	GN-5 (6)	GO-7 (6)
Auburn 6-43, Cont. 7U..(1925)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-2 (7)	GM-2 (11)	GN-2 (11)	GO-2 (11)
Auburn 8-88, Lyc. 2H...(1925)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-5 (6)	GM-4 (21)	GN-4 (66)	GO-4 (22)
Auburn 4-44, Lyc. CF...(1926-27)	GKA-6 (6)	GKB-6 (6)	GKA-6 (6)	GKD-6 (6)	GL-6 (6)	GM-6 (6)	GN-5 (6)	GO-7 (6)
Auburn 6-66, Lyc. 4SM..(1926-27)	GKA-7 (4)	GKB-7 (4)	GKC-7 (4)	GKD-7 (4)	GL-4 (31)	GM-4 (21)	GN-4 (66)	GO-4 (22)
Auburn 8-88, Lyc. 4HM..(1926)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (66)	GO-4 (22)
Auburn 6-66A, Cont. 28I.(1927)	GKA-140 (14)	GKB-8 (16)	GKC-8 (16)	GKB-8 (16)	GL-7 (6)	GM-8 (8)	GN-7 (22)	GO-8 (16)
Auburn 8-88, Lyc. 4HM..(1927-28)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (66)	GO-4 (22)
Auburn 8-77, Lyc. GT...(1927-28)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (66)	GO-9 (23)
Auburn 76, Lyc. WS....(1928-29)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (66)	GO-9 (23)
Auburn 88, Lyc. GS.....(1928-29)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (66)	GO-9 (23)
Auburn 115, Lyc. 4MD..(1928-29)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (66)	GO-10 (13)
Auburn 6-80, Lyc. WR..(1929)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-208 (16)	GM-10 (16)	GN-4 (66)	GO-11 (2)
Auburn 8-90, Lyc. GR...(1929)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-208 (16)	GM-10 (16)	GN-4 (66)	GO-11 (2)
Auburn 120, Lyc. MDA.(1929)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (66)	GO-10 (13)
Blackhawk, L 6.....(1929)	GKA-9 (6)	GKB-11 (6)	GKC-10 (6)	GKD-9 (6)	GL-11 (1)	GM-11 (2)	GN-12 (6)	GO-12 (1)
Blackhawk, L 8.....(1929)	GKA-10 (1)	GKB-12 (2)	GKC-11 (2)	GKB-12 (2)	GL-12 (1)	GM-12 (1)	GN-13 (1)	GO-39 (1)
Buick Master.....(1925)	*GKA-11 (8)	*GKB-13 (8)	*GKC-12 (8)	*GKD-11 (8)	GL-13 (1)	GM-13 (1)	GN-14 (2)	GO-14 (2)
Buick Std.....(1925)	*GKA-12 (2)	*GKB-14 (4)	*GKC-13 (4)	*GKD-12 (4)	GL-14 (1)	GM-14 (1)	GN-15 (4)	GO-15 (2)
Buick Master.....(1926)	*GKA-11 (8)	*GKB-13 (8)	*GKC-12 (8)	*GKD-11 (8)	GL-15 (1)	GM-167 (2)	GN-14 (2)	GO-14 (2)
Buick Std.....(1926)	*GKA-12 (2)	*GKB-14 (4)	*GKC-13 (4)	*GKD-12 (4)	GL-16 (1)	GM-16 (8)	GN-15 (4)	GO-15 (2)
Buick 115.....(1927)	GKA-30 (2)	GKB-14 (4)	GKC-13 (4)	GKD-12 (4)	GL-17 (2)	GM-16 (8)	GN-15 (4)	GO-13 (9)
Buick 120, 128.....(1927)	GKA-11 (8)	GKB-13 (8)	GKC-12 (8)	GKD-11 (8)	GL-18 (1)	GM-167 (2)	GN-16 (1)	GO-17 (1)
Buick 115.....(1928)	GKA-30 (2)	GKB-14 (4)	GKC-13 (4)	GKD-12 (4)	GL-17 (2)	GM-16 (8)	GN-15 (4)	GO-180 (8)
Buick 116.....(1929)	GKA-13 (1)	GKB-15 (1)	GKC-14 (1)	GKD-13 (1)	GL-19 (1)	GM-17 (1)	GN-17 (1)	GO-18 (1)
Buick 121, 129.....(1929)	GKA-14 (1)	GKB-16 (1)	GKC-15 (1)	GKD-14 (1)	GL-20 (1)	GM-18 (1)	GN-11 (1)	GO-19 (1)
Cadillac V-63.....(1925)	GKA-15 (1)	GKA-16 (8)	GKC-16 (1)	None	GL-21 (1)	GM-19 (6)	GN-18 (4)	GO-20 (1)
Cadillac 314.....(1926)	GKA-16 (2)	GKA-16 (8)	GKC-17 (2)	None	GL-22 (4)	GM-19 (6)	GN-18 (4)	GO-21 (2)
Cadillac 314.....(1927)	GKA-16 (2)	GKA-16 (8)	GKC-17 (2)	None	GL-22 (4)	GM-19 (6)	GN-18 (4)	GO-21 (2)
Cadillac 341A.....(1928)	GKA-17 (6)	GKB-19 (6)	GKC-18 (6)	None	GL-23 (2)	GM-20 (2)	GN-19 (8)	GO-22 (4)
Cadillac 341 B.....(1929)	GKA-17 (6)	GKB-19 (6)	GKC-18 (6)	None	GL-23 (2)	GM-20 (2)	GN-19 (8)	GO-23 (1)
Case JIC, Cont. 8R.....(1926)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Case X, Cont. 8R.....(1925)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Case Y, Cont. 6T.....(1925)	GKA-18 (1)	GKB-20 (1)	GKC-19 (1)	GKB-20 (1)	GL-224 (6)	GM-201 (6)	GN-20 (6)	GO-24 (2)
Case J I C, Cont. 8R....(1926-27)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Case Y, Cont. 6J.....(1926-27)	GKA-31 (4)	GKB-10 (4)	GKC-31 (4)	GKB-10 (4)	GL-24 (6)	GM-21 (6)	GN-20 (6)	GO-40 (8)
Chandler 33.....(1925)	GKA-19 (1)	GKB-21 (1)	GKC-20 (1)	GKD-19 (1)	GL-25 (4)	GM-22 (1)	GN-21 (4)	GO-25 (1)
Chandler 35.....(1926)	GKA-20 (8)	GKB-22 (8)	GKC-21 (8)	GKD-20 (8)	GL-25 (4)	GM-23 (4)	GN-21 (4)	GO-26 (8)
Chandler Big 6.....(1927)	GKA-20 (8)	GKB-22 (8)	GKC-21 (8)	GKD-20 (8)	GL-209 (4)	GM-24 (1)	GN-21 (4)	GO-26 (8)
Chandler Royal 8.....(1927)	GKA-21 (2)	GKB-23 (2)	GKC-22 (2)	None	GL-26 (2)	GM-25 (2)	GN-22 (2)	GO-27 (2)
Chandler Spec. 6.....(1927)	GKA-22 (6)	GKB-24 (6)	GKC-23 (6)	None	GL-27 (4)	GM-26 (4)	GN-23 (8)	GO-28 (8)
Chandler Std. 6.....(1927)	GKA-23 (8)	GKB-25 (8)	GKC-24 (8)	None	GL-28 (4)	GM-15 (8)	GN-24 (6)	GO-29. (6)
Chandler Big 6.....(1928)	GKA-20 (8)	GKB-22 (8)	GKC-21 (8)	GKD-20 (8)	GL-209 (4)	GM-23 (4)	GN-21 (4)	GO-26 (8)
Chandler Royal 8.....(1928)	GKA-21 (2)	GKB-23 (2)	GKC-22 (2)	None	GL-26 (2)	GM-25 (2)	GN-22 (2)	GO-27 (2)
Chandler Spec. 6.....(1928)	GKA-22 (6)	GKB-24 (6)	GKC-23 (6)	None	GL-28 (4)	GM-26 (4)	GN-24 (6)	GO-29 (6)
Chandler Spec. Inv. 6....(1928)	GKA-22 (6)	GKB-24 (6)	GKC-23 (6)	None	GL-210 (4)	GM-23 (4)	GN-24 (6)	GO-29 (6)
Chevrolet K.....(1925)	GKA-24 (4)	GKB-26 (4)	GKC-25 (4)	None	GL-30 (4)	GM-27 (4)	None	GO-30 (4)
Chevrolet V.....(1926)	GKA-24 (4)	GKB-26 (4)	GKC-25 (4)	None	GL-30 (4)	GM-27 (4)	None	GO-30 (4)
Chevrolet AA.....(1927)	GKA-24 (4)	GKB-26 (4)	GKC-25 (4)	None	GL-30 (4)	GM-27 (4)	None	GO-30 (4)
Chevrolet AB.....(1928)	GKA-24 (4)	GKB-26 (4)	GKC-25 (4)	None	GL-211 (4)	GM-27 (4)	None	GO-30 (4)
Chevrolet AC.....(1929-30)	GKA-25 (1)	GKB-27 (1)	GKC-26 (1)	None	GL-31 (1)	GM-28 (1)	GN-26 (1)	GO-31 (1)
Chrysler 6 B.....(1925)	GKA-26 (4)	GKB-28 (4)	GKC-27 (4)	GKD-27 (4)	GL-32 (4)	GM-29 (4)	GN-31 (4)	GO-32 (1)
Chrysler 58.....(1926)	GKA-27 (6)	GKB-29 (6)	GKC-28 (6)	None	GL-33 (6)	GM-30 (6)	None	GO-33 (6)
Chrysler 70.....(1926)	GKA-28 (4)	GKB-30 (4)	GKC-29 (4)	GKD-28 (4)	GL-34 (8)	GM-31 (2)	None	GO-34 (8)
Chrysler Imp. 80.....(1926)	GKA-29 (4)	GKA-29 (4)	GKC-30 (4)	GKD-29 (4)	GL-35 (2)	GM-32 (2)	None	GO-35 (2)
Chrysler 50.....(1927)	GKA-27 (6)	GKB-29 (6)	GKC-28 (6)	None	GL-33 (6)	GM-30 (6)	None	GO-33 (6)
Chrysler 60.....(1927)	GKA-26 (4)	GKB-28 (4)	GKC-27 (4)	GKD-27 (4)	GL-32 (4)	GM-29 (4)	GN-31 (4)	GO-36 (8)
Chrysler 70.....(1927)	GKA-28 (4)	GKB-30 (4)	GKC-29 (4)	GKD-28 (4)	GL-34 (8)	GM-31 (2)	None	GO-34 (8)
Chrysler 80.....(1927)	GKA-29 (4)	GKA-29 (4)	GKC-30 (4)	GKD-29 (4)	GL-35 (2)	GM-32 (2)	None	GO-35 (2)
Chrysler 52.....(1928)	GKA-27 (6)	GKB-29 (6)	GKC-28 (6)	None	GL-33 (6)	GM-30 (6)	None	GO-33 (6)
Chrysler 62.....(1928)	GKA-26 (4)	GKB-28 (4)	GKC-27 (4)	GKD-27 (4)	GL-32 (4)	GM-29 (4)	GN-31 (4)	GO-36 (8)
Chrysler 72.....(1928)	GKA-28 (4)	GKB-30 (4)	GKC-29 (4)	GKD-28 (4)	GL-36 (2)	GM-33 (2)	None	GO-37 (2)
Chrysler Imp. 80.....(1928)	GKA-29 (4)	GKA-29 (4)	GKC-30 (4)	GKD-29 (4)	GL-37 (2)	GM-34 (2)	None	GO-38 (2)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Footnote: For corresponding Dall piston and Burgess-Norton pin numbers see page 203.

Digitized by Google

B-N Piston Pins

Burgess-Norton Lapped Piston Pins

represent the highest development in pins. Immediately upon installation, they give the same surface at the bearing point that a ground pin gives after being run from one to two thousand miles. And every one is guaranteed!

Dall Pistons

Semi-Steel, Plain Alloy, and Strut, and Unitype Designs

Dall Pistons

are made of materials that are uniform and flawless. Over 500 *Dall Pistons* to fit more than 5,000 models of motor vehicles and equipment.

CONVERSION TABLE

Order by B-N or Dall number—not Chilton number.

Piston Pin Fits Piston shown in same line.

Chilton Piston No.	Dall Piston No.	Chilton Pin No.	B-N Pin No.	Chilton Piston No.	Dall Piston No.	Chilton Pin No.	B-N Pin No.	Chilton Piston No.	Dall Piston No.	Chilton Pin No.	B-N Pin No.
GL-1	D-231	GM-1	P-189	GL-74	D-282	GM-57	P-606	GL-136	D-326	GM-104	P-619
GL-2	D-141	GM-2	P-507 X	GL-75	D-327	GM-58	P-623	GL-137	D-158	GM-105	P-536
	DL-1141		P-507 X	GL-76	D-211	GM-59	P-560	GL-138	D-220	GM-106	P-566
GL-3	D-119	GM-3	P-509		DL-1211		P-560		DL-1220		P-566
GL-4	D-258	GM-4	P-588	GL-77	DL-1529	GM-59	P-560	GL-139	D-260	GM-107	P-598
GL-5	D-214	GM-5	P-559		DL-1621		P-560		DL-1260		P-598
GL-6	D-157	GM-6	P-531		DU-1704		P-560	GL-140	D-182	GM-110	P-574
GL-7	D-272	GM-8	P-599	GL-78	DL-1507	GM-60	P-597		D-182 A		P-574
GL-8	D-283	GM-9	P-605	GL-79	D-42 X	GM-61	F-3022	GL-141	D-249	GM-109	P-573
GL-9	DL-1623	GM-10	P-631		DL-1042		F-3022		D-249 A		P-573
GL-13	D-154	GM-13	P-108	GL-80	D-380	GM-62	F-6135	GL-142	DL-1531	.....	.....
GL-14	D-194	GM-14	P-553		DL-1516		F-6135	GL-145	D-279	GM-113	P-602
GL-15	D-226	GM-167	P-584		DU-1703		F-6135	GL-146	D-235	GM-112	P-585
GL-16	D-225	GM-16	P-583	GL-81	.....	GM-63	P-149	GL-147	.....	GM-115	P-275
GL-17	D-263	GM-16	P-583	GL-83	.....	GM-64	P-666	GL-149	D-341	GM-118	P-558
GL-18	D-264	GM-167	P-584	GL-86	DL-1637	GM-67	P-627	GL-150	D-340	GM-119	P-513
GL-19	D-328	GM-17	P-640	GL-89	DL-1620	GM-66	P-633	GL-151	.....	GM-120	P-655
GL-20	D-329	GM-18	P-641	GL-90	DL-1627	GM-223	P-658	GL-154	D-381	GM-122	P-648
GL-21	D-50	GM-19	P-133	GL-91	DL-1615	GM-95	P-636	GL-155	D-178	GM-123	P-195
GL-22	D-259	GM-19	P-133	GL-94	D-144	GM-69	P-508		D-1178		P-195
GL-23	D-331	GM-20	P-643	GL-95	D-166	GM-70	P-519		DL-1511		P-195
GL-24	D-142	GM-21	P-540	GL-96	D-185	GM-71	P-501		DL-1511 S		P-195
GL-25	D-213	GM-22	P-561		D-185 A		P-501	GL-156	D-285	GM-124	P-608
GL-26	D-378	GM-25	P-611		DL-1185		P-501		DL-1517		P-608
GL-27	D-228	GM-26	P-581		DL-1605		P-501	GL-157	DL-1532	GM-232	P-646
GL-28	D-227	GM-15	P-580	GL-97	D-208	GM-56	P-565	GL-159	D-242	GM-127	P-575
GL-30	D-270	GM-27	P-592	GL-98	D-179	GM-73	P-158	GL-162	D-255	GM-132	P-526
	DL-1608		P-592		D-179A		P-158	GL-164	DL-1509	GM-133	P-552
GL-31	D-372 B	GM-28	P-644		DL-1179		P-158	GL-174	D-57	GM-144	P-517
	DL-1524		P-645	GL-99	D-254	GM-56	P-565	GL-175	D-88	GM-145	P-118
	DL-1618		P-645	GL-101	D-330	GM-75	P-622	GL-176	D-193	GM-146	P-557
	DU-1702		P-645	GL-102	D-339	GM-76	P-625	GL-177	D-353	GM-146	P-557
GL-32	DL-1500	GM-29	P-551	GL-105	DL-1616	GM-98	P-637	GL-178	D-415	GM-147	P-654
	DL-1600		P-551	GL-106	DL-1617	GM-96	P-635		DL-1619		P-654
GL-33	D-236	GM-30	P-518	GL-107	D-290	GM-97	P-614		DU-1722		P-654
	DL-1502		P-518	GL-111	.....	GM-79	P-260	GL-179	DL-1530	GM-90	P-148
GL-34	DL-1501	GM-31	P-579	GL-112	D-410	GM-148	P-647		DU-1717		P-148
	DL-1601		P-579		DL-1626		P-647	GL-184	D-298	GM-154	P-535
GL-35	DL-1508	GM-32	P-596		DU-1720		P-647	GL-186	D-299	GM-154	P-535
GL-36	DL-1610	GM-33	P-617	GL-113	D-239	GM-231	P-578	GL-187	D-397	GM-157	P-656
GL-37	DL-1625	GM-34	.....	GL-114	D-232	GM-114	P-139	GL-188	D-233	GM-166	P-220
GL-40	D-86	GM-37	P-213	GL-115	D-391	GM-20	P-643		DL-1506		P-220
GL-42	D-266	GM-40	P-591	GL-116	.....	GM-81	P-555		DL-1506B		P-220
GL-43	D-243	GM-42	P-589	GL-117	DL-1512	GM-77	P-609	GL-189	D-234	GM-158	P-567
	DL-1243		P-589		DL-1607		P-609	GL-191	DL-1612	GM-159	P-628
	DL-1602		P-609	GL-118	DL-1504	GM-82	P-516	GL-192	DL-1613	GM-161	P-630
GL-45	D-262	GM-45	P-554	GL-120	D-273	GM-86	P-582	GL-194	DL-1534	GM-164	P-653
	D-267		P-554	GL-121	.....	GM-84	P-549	GL-195	DU-1707	GM-8	P-601
GL-47	D-261	GM-41	P-586	GL-123	D-287	GM-88	P-615	GL-196	DL-1614	GM-65	P-634
GL-48	D-63	GM-46	P-111	GL-124	DL-1520	GM-89	P-620	GL-197	D-212	GM-111	P-564
	DL-1063		P-111	GL-125	DL-1519	GM-87	P-599	GL-208	D-396	GM-10	P-631
	DL-1603		P-111	GL-128	D-230	GM-93	P-595		DU-1725		P-631
GL-49	D-284	GM-47	P-613	GL-129	D-195	GM-94	P-556	GL-216	D-392	GM-233	P-649
	DL-1604		P-613		D-323		P-556		DL-1326		P-649
	DU-1718		P-613	GL-130	D-210	GM-99	P-570	GL-220	DU-1701	GM-89	P-620
GL-50	DL-1609	GM-48	P-638	GL-131	D-229	GM-100	P-590	GL-221	D-332	GM-19	P-133
	DU-1705		P-638		D-265	GM-165	P-593	GL-222	D-333	GM-80	P-621
GL-54	D-217	GM-52	P-415	GL-132	D-286	GM-101	P-594	GL-223	DL-1622	GM-4	P-588
GL-55	D-155	GM-54	P-244	GL-133	D-379	GM-102	P-651	GL-226	.....	GM-43	P-624
GL-57	D-246	GM-44	P-563		DL-1527		P-642	GL-227	.....	GM-230	P-521
	DL-1246		P-563	GL-134	D-219	GM-103	P-577	GL-233	D-238	GM-101	P-594
	DL-1606		P-563		219 X		P-577		DL-1238		P-594
GL-69	DL-1630	GM-66	P-633					GL-234	DL-1634	GM-116	P-600
	DU-1723		P-633	GL-135	D-271	.....	P-607				

D—Semi-Steel Piston. DL—1000-1599 incl. Aluminum Alloy Pistons. DL—1600-1699 Steel Strut Pistons. DU—1700-1799 Unitype Pistons. P—Piston Pins

Burgess-Dall Corporation

BURGESS-NORTON MFG. CO.

Piston Pins, Valves and Clutch Plates

517 Peyton Street, Geneva, Illinois

NSPA

DALL MOTOR PARTS CO.

Pistons and Shop Equipment

Dept. [CAM]

P. O. Station "D" Cleveland, Ohio

These Six Branches Insure "Overnight Service Everywhere"

Chicago, Ill. Brooklyn, N. Y. Detroit, Mich. Atlanta, Ga. Dallas, Texas Kansas City, Mo.

Digitized by Google

ENGINE ASSEMBLY, Section 1—Continued

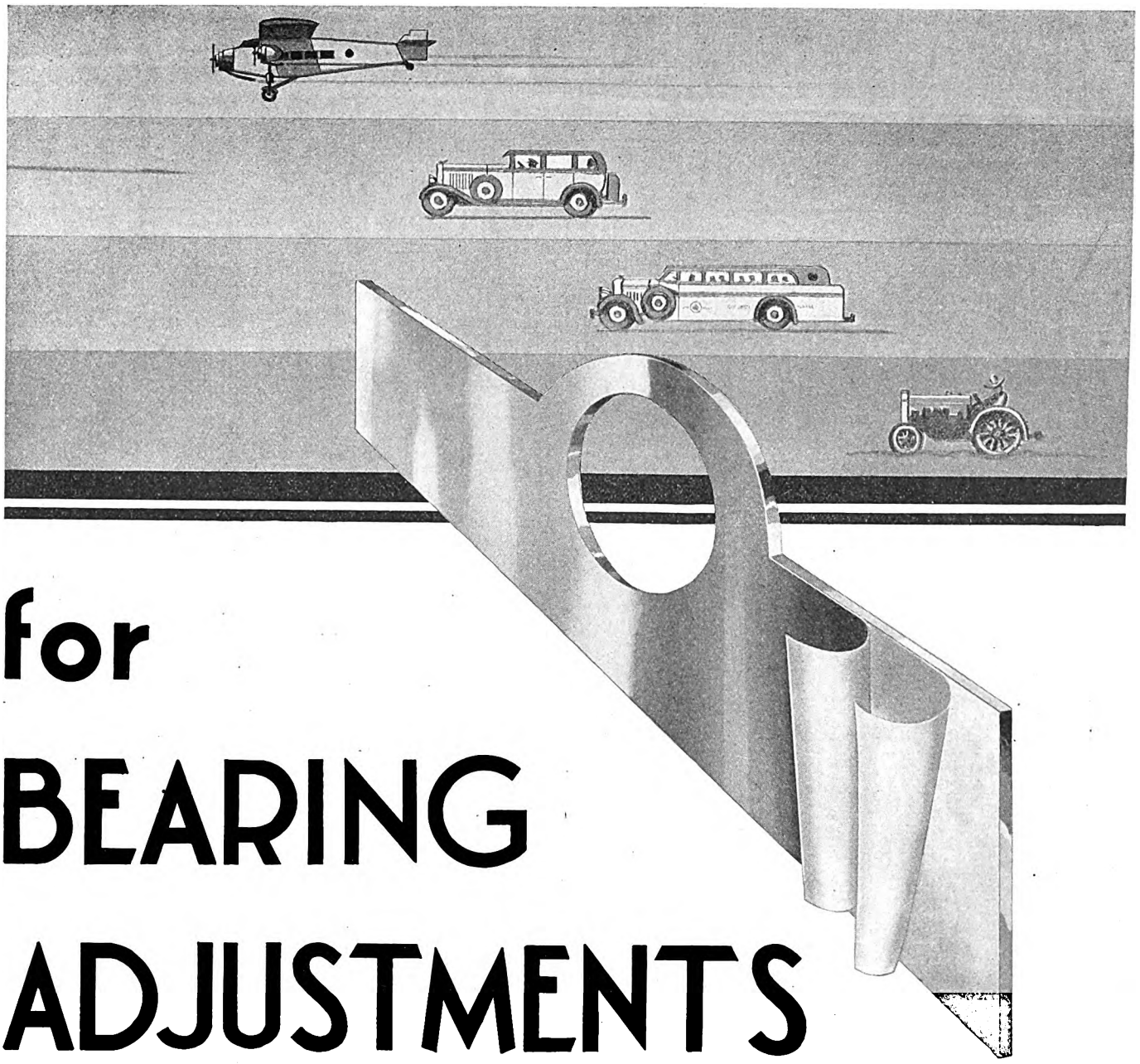
DIRECTIONS ARE GIVEN ON PAGE 202

Car Make and Model	CRANKSHAFT MAIN BEARINGS				PISTON AND CONNECTING ROD ASSEMBLY			
	Front Main Bearing	†Center Main Bearing	Rear Main Bearing	‡Intermediate Main Bearings	Piston (See Footnote)	Piston Pin (See Footnote)	Piston Pin Bushing	Connecting Rod
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Chrysler 65.....(1929)	GKA-26 (4)	GKB-28 (4)	GKC-27 (4)	GKD-27 (4)	GL-34 (3)	GM-31 (1)	None	GO-36 (3)
Chrysler 75.....(1929)	GKA-28 (4)	GKB-30 (4)	GKC-29 (4)	GKD-28 (4)	GL-36 (2)	GM-33 (2)	None	GO-37 (2)
Chrysler Imp. 80.....(1929-30)	GKA-29 (4)	GKA-29 (4)	GKC-30 (4)	GKD-29 (4)	GL-37 (2)	GM-34 (2)	None	GO-38 (2)
Cleveland 31.....(1925)	GKA-23 (3)	GKB-25 (3)	GKC-24 (3)	None	GL-28 (4)	GM-15 (3)	GN-24 (6)	GO-29 (6)
Cleveland 43.....(1925)	GKA-22 (6)	GKB-24 (6)	GKC-23 (6)	None	GL-27 (4)	GM-26 (4)	GN-23 (3)	GO-28 (3)
Cleveland 31.....(1926)	GKA-23 (3)	GKB-25 (3)	GKC-24 (3)	None	GL-28 (4)	GM-15 (3)	GN-24 (6)	GO-29 (6)
Cleveland 43.....(1926)	GKA-22 (6)	GKB-24 (6)	GKC-23 (6)	None	GL-27 (4)	GM-26 (4)	GN-23 (3)	GO-28 (3)
Cole Master.....(1925)	GKA-32 (1)	GKB-34 (1)	GKC-33 (1)	None	GL-40 (1)	GM-37 (1)	GN-35 (1)	GO-41 (1)
Davis 90, Cont. 7U.....(1925-26)	GKA-2 (11)	GKB-2 (11)	GKC-2 (11)	GKB-2 (11)	GL-2 (7)	GM-2 (11)	GN-2 (11)	GO-2 (11)
Davis 91, Cont. 8R.....(1925-26)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Davis 92, Cont. 11U.....(1926)	GKA-35 (8)	GKB-37 (8)	GKC-36 (8)	GKD-35 (8)	GL-42 (8)	GM-40 (6)	GN-38 (8)	GO-44 (6)
Davis 93, Cont. 20L.....(1926)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Davis 92, Cont. 11U.....(1927)	GKA-35 (8)	GKB-37 (8)	GKC-36 (8)	GKD-35 (8)	GL-42 (8)	GM-40 (6)	GN-38 (8)	GO-44 (6)
Davis 94, Cont. 28L.....(1927)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-7 (6)	GM-8 (9)	GN-7 (22)	GO-8 (15)
Davis 98, Cont. 8S.....(1927)	GKA-36 (8)	GKB-39 (8)	GKC-37 (8)	GKB-39 (8)	GL-47 (6)	GM-41 (4)	GN-7 (22)	GO-39 (9)
Davis 99, Cont. 14S.....(1928)	GKA-36 (8)	GKB-39 (8)	GKC-37 (8)	GKB-39 (8)	GL-226 (10)	GM-43 (4)	GN-40 (6)	GO-39 (9)
De Soto 6.....(1929-30)	GKA-37 (1)	GKB-40 (1)	GKC-38 (1)	GKB-40 (1)	GL-32 (4)	GM-29 (4)	GN-31 (4)	GO-46 (1)
Diana Str. 8, Cont. 12Z..(1926)	*GKA-38 (3)	*GKB-41 (3)	*GKC-39 (3)	*GKB-41 (3)	GL-45 (10)	GM-45 (6)	GN-6 (6)	GO-47 (3)
Diana Str. 8, Cont. 12Z..(1927)	*GKA-38 (3)	*GKB-41 (3)	*GKC-39 (3)	*GKB-41 (3)	GL-45 (10)	GM-45 (6)	GN-6 (6)	GO-47 (3)
Diana Str. 8, Cont. 12Z..(1928)	*GKA-38 (3)	*GKB-41 (3)	*GKC-39 (3)	*GKB-41 (3)	GL-45 (10)	GM-45 (6)	GN-6 (6)	GO-47 (3)
Dodge Brothers 4.....(1925)	GKA-39 (3)	GKB-42 (3)	GKC-40 (3)	GKB-42 (3)	GL-48 (3)	GM-46 (3)	GN-41 (3)	GO-48 (3)
Dodge Brothers 4.....(1926)	GKA-39 (3)	GKB-42 (3)	GKC-40 (3)	GKB-42 (3)	GL-48 (3)	GM-46 (3)	GN-41 (3)	GO-48 (3)
Dodge Brothers 4.....(1927)	GKA-39 (3)	GKB-42 (3)	GKC-40 (3)	GKB-42 (3)	GL-48 (3)	GM-46 (3)	GN-41 (3)	GO-48 (3)
Dodge Brothers, Senior..(1928)	GKA-40 (2)	GKB-43 (2)	GKC-41 (2)	GKD-40 (2)	GL-50 (11)	GM-48 (12)	GN-42 (6)	GO-49 (2)
Dodge DA 6.....(1928)	GKA-41 (3)	GKB-44 (3)	GKC-42 (3)	GKD-41 (3)	GL-50 (11)	GM-48 (12)	GN-42 (6)	GO-50 (3)
Dodge Brothers Victory 6(1928-29)	GKA-41 (3)	GKB-44 (3)	GKC-42 (3)	GKD-41 (3)	GL-50 (11)	GM-48 (12)	GN-42 (6)	GO-50 (3)
Dodge Brothers Senior...(1929)	GKA-40 (2)	GKB-43 (2)	GKC-41 (2)	GKD-40 (2)	GL-50 (11)	GM-48 (12)	GN-42 (6)	GO-49 (2)
Dodge Brothers Std. 6...(1929)	GKA-41 (3)	GKB-44 (3)	GKC-42 (3)	GKD-41 (3)	GL-50 (11)	GM-48 (12)	GN-42 (6)	GO-50 (3)
duPont D, Wisc. Y.....(1925)	GKA-45 (6)	GKB-48 (6)	GKC-46 (6)	None	GL-54 (6)	GM-52 (6)	GN-46 (6)	GO-54 (6)
duPont D, Wisc. Y.....(1926)	GKA-45 (6)	GKB-48 (6)	GKC-46 (6)	None	GL-54 (6)	GM-52 (6)	GN-46 (6)	GO-54 (6)
duPont E, Wisc. Y.....(1927)	GKA-45 (6)	GKB-48 (6)	GKC-46 (6)	None	GL-54 (6)	GM-52 (6)	GN-46 (6)	GO-54 (6)
duPont E, F Wisc. Y ...(1928)	GKA-45 (6)	GKB-48 (6)	GKC-46 (6)	None	GL-54 (6)	GM-52 (6)	GN-46 (6)	GO-54 (6)
duPont E, Wisc. Y.....(1929)	GKA-45 (6)	GKB-48 (6)	GKC-46 (6)	None	GL-54 (6)	GM-52 (6)	GN-46 (6)	GO-54 (6)
duPont G, Cont. 12K....(1929-30)	GKA-46 (6)	GKB-49 (6)	GKC-47 (6)	GKD-46 (6)	GL-46 (6)	GM-36 (6)	GN-47 (21)	GO-55 (6)
Durant A 22, Cont.....(1925)	GKA-47 (1)	GKB-50 (1)	GKC-48 (1)	None	GL-55 (1)	GM-54 (2)	GN-48 (1)	GO-56 (1)
Durant D-55, Cont. 14L.(1928)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Durant M 2, Cont. W5..(1928-29)	*GKA-48 (6)	*GKB-52 (6)	*GKC-50 (6)	None	GL-57 (6)	GM-44 (6)	GN-49 (6)	GO-57 (6)
Durant D 65, Cont. 15L.(1928)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-195 (2)	GM-8 (8)	GN-7 (22)	GO-8 (15)
Durant 75, Cont. 15U...(1928-29)	GKA-35 (8)	GKB-37 (8)	GKC-36 (8)	GKD-35 (8)	GL-50 (11)	GM-48 (12)	GN-47 (21)	GO-58 (4)
Durant 4-40, Cont. W5..(1929)	*GKA-48 (6)	*GKB-52 (6)	*GKC-50 (6)	None	GL-57 (6)	GM-44 (6)	GN-49 (6)	GO-57 (6)
Durant 6-60, Cont. 14L..(1929)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Durant 66, Cont. 15L...(1929)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-195 (2)	GM-8 (8)	GN-7 (22)	GO-8 (15)
Durant 70, Cont. 20E...(1929)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-50 (11)	GM-48 (12)	GN-47 (21)	GO-66 (1)
Elcar 4-40, Lyc. CF.....(1925)	GKA-6 (6)	GKB-6 (6)	GKA-6 (6)	GKD-6 (6)	GL-6 (6)	GM-6 (6)	GN-5 (6)	GO-7 (6)
Elcar 6-50, Cont. 7U....(1925)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-2 (7)	GM-2 (11)	GN-2 (11)	GO-2 (11)
Elcar 6-60, Cont. 8R....(1925)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Elcar 8-80, Lyc. H.....(1925)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-5 (6)	GM-5 (4)	GN-4 (65)	GO-5 (6)
Elcar 4-55, Lyc. CE.....(1926-27)	GKA-6 (6)	GKB-6 (6)	GKA-6 (6)	GKD-6 (6)	GL-6 (6)	GM-6 (6)	GN-5 (6)	GO-7 (6)
Elcar 6-65, Lyc. 4SM....(1926)	GKA-7 (4)	GKB-7 (4)	GKC-7 (4)	GKD-7 (4)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Elcar 8-81, Lyc. 4H.....(1926)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Elcar 6-70, Lyc. WS.....(1927)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)
Elcar 8-82, Lyc. GT.....(1927)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)
Elcar 8-90, Lyc. 4HM....(1927)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Elcar 6-70, Lyc. WS.....(1928-29)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Elcar 8-78, Lyc. GT.....(1928-29)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)
Elcar 8-82, Lyc. GS.....(1928-29)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Elcar 8-91, Lyc. 4HM....(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Elcar 8-120, Lcy. MD....(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (65)	GO-10 (13)
Elcar 75, Lyc. WS.....(1929-30)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Elcar 95, 96, Lyc. GS....(1929-30)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Elcar 120, Lyc. MD.....(1929-30)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (65)	GO-10 (13)
Erskine 50, Cont. 8F....(1927)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-74 (1)	GM-57 (1)	GN-47 (21)	GO-61 (1)
Erskine 51, Cont. 9F....(1928)	GKA-49 (2)	GKB-53 (2)	GKC-51 (2)	GKB-53 (2)	GL-75 (2)	GM-58 (2)	GN-7 (22)	GO-60 (2)
Erskine 52, Cont. 9F....(1929)	GKA-49 (2)	GKB-53 (2)	GKC-51 (2)	GKB-53 (2)	GL-75 (2)	GM-58 (2)	GN-7 (22)	GO-60 (2)
Essex 6.....(1925)	GKA-51 (2)	GKB-54 (2)	GKC-52 (2)	None	GL-76 (4)	GM-59 (6)	GN-50 (6)	GO-62 (3)
Essex 6.....(1926)	GKA-51 (2)	GKB-54 (2)	GKC-52 (2)	None	GL-76 (4)	GM-59 (6)	GN-50 (6)	GO-62 (3)
Essex Super 6.....(1927)	GKA-52 (2)	GKB-55 (2)	GKC-53 (2)	None	GL-76 (4)	GM-59 (6)	GN-50 (6)	GO-62 (3)
Essex Super 6.....(1928)	GKA-52 (2)	GKB-55 (2)	GKC-53 (2)	None	GL-76 (4)	GM-59 (6)	GN-50 (6)	GO-63 (1)
Essex Challenger.....(1929-30)	GKA-53 (1)	GKB-56 (1)	GKC-54 (1)	None	GL-77 (1)	GM-59 (6)	GN-50 (6)	GO-64 (1)
Falcon Knight 10.....(1927-28)	GKA-54 (2)	GKB-57 (2)	GKC-55 (2)	GKD-54 (2)	GL-78 (2)	GM-60 (2)	GN-51 (2)	GO-65 (1)
Falcon Knight 12.....(1928-29)	GKA-54 (2)	GKB-57 (2)	GKC-55 (2)	GKD-54 (2)	GL-192 (5)	GM-161 (3)	GN-51 (2)	GO-59 (1)
Flint B40, Cont. 7U.....(1925-26)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-2 (7)	GM-2 (11)	GN-2 (11)	GO-2 (6)
Flint E-55, Cont. 6E....(1925-26)	*GKA-55 (3)	*GKB-58 (3)	*GKC-56 (3)	*GKD-55 (3)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-67 (3)
Flint 60, Cont. 14U.....(1926	*GKA-75 (3)	*GKB-38 (2)	*GKC-32 (2)	*GKD-53 (2)	GL-42 (8)	GM-40 (6)	GN-38 (8)	GO-58 (4)
Flint 80, Cont. 6E.....(1926)	*GKA-55 (3)	*GKB-58 (3)	*GKC-56 (3)	*GKD-55 (3)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-67 (3)
Flint Jr., Cont. 9L.....(1926)	*GKA-140 (14)	*GKB-8 (15)	*GKC-8 (15)	*GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Flint 60, Cont. 14U.....(1927-28)	*GKA-75 (3)	*GKB-38 (2)	*GKC-32 (2)	*GKD-53 (2)	GL-42 (8)	GM-40 (6)	GN-38 (8)	GO-58 (4)
Flint 80, Cont. 6E.....(1927-28)	*GKA-55 (3)	*GKB-58 (3)	*GKC-56 (3)	*GKD-55 (3)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-67 (3)
Flint Jr., Cont. 9L.....(1927)	*GKA-110 (1)	*GKB-8 (15)	*GKC-8 (15)	*GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Ford T.....(1925)	GKA-56 (3)	GKB-59 (3)	GKC-57 (3)	None	GL-79 (3)	GM-61 (3)	GN-53 (3)	GO-68 (3)
Ford T.....(1926)	GKA-56 (3)	GKB-59 (3)	GKC-57 (3)	None	GL-79 (3)	GM-61 (3)	GN-53 (3)	GO-68 (3)
Ford T.....(1927)	GKA-56 (3)	GKB-59 (3)	GKC-57 (3)	None	GL-79 (3)	GM-61 (3)	GN-53 (3)	GO-68 (3)
Ford A.....(1928)	GKA-57 (2)	GKB-60 (2)	GKC-58 (2)	None	GL-80 (2)	GM-62 (2)	GN-54 (2)	GO-69 (2)
Ford A.....(1929-30)	GKA-57 (2)	GKB-60 (2)	GKC-58 (2)	None	GL-80 (2)	GM-62 (2)	GN-54 (2)	GO-69 (2)
Franklin Series 11.....(1925)	GKA-58 (6)	GKB-61 (6)	GKC-59 (6)	GKD-58 (6)	GL-81 (4)	GM-63 (4)	GN-55 (6)	GO-70 (2)
Franklin Series 11.....(1926)	GKA-58 (6)	GKB-61 (6)	GKC-59 (6)	GKD-58 (6)	GL-81 (4)	GM-63 (4)	GN-55 (6)	GO-70 (2)
Franklin Series 11 B.....(1927)	GKA-58 (6)	GKB-61 (6)	GKC-59 (6)	GKD-58 (6)	GL-81 (4)	GM-63 (4)	GN-55 (6)	GO-71 (1)
Franklin Series 12 .....(1927-28)	GKA-58 (6)	GKB-61 (6)	GKC-59 (6)	GKD-58 (6)	GL-81 (4)	GM-63 (4)	GN-55 (6)	GO-72 (1)
Franklin 130.....(1929)	GKA-58 (6)	GKB-61 (6)	GKC-59 (6)	GKD-58 (6)	GL-82 (1)	GM-64 (2)	GN-55 (6)	GO-73 (1)
Franklin 135, 137.....(1929)	GKA-59 (1)	GKB-62 (1)	GKC-60 (1)	GKD-59 (1)	GL-83 (1)	GM-64 (2)	GN-56 (1)	GO-74 (1)
Gardner 6A, Lyc. 4S....(1925)	GKA-7 (4)	GKB-7 (4)	GKC-7 (4)	GKD-7 (4)	GL-5 (6)	GM-5 (4)	GN-4 (65)	GO-5 (6)
Gardner 8A, Lyc. 2H....(1925)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-5 (6)	GM-5 (4)	GN-4 (65)	GO-5 (6)
Gardner Series 5, Lyc.CE(1925)	GKA-6 (6)	GKB-6 (6)	GKA-6 (6)	GKD-6 (6)	GL-6 (6)	GM-6 (6)	GN-5 (6)	GO-7 (6)
Gardner 6 B, Lyc. 4SM..(1926-27)	GKA-7 (4)	GKB-7 (4)	GKC-7 (4)	GKD-7 (4)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Gardner 8 B, Lyc. 4HM.(1926-27)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Gardner 80, Lyc. GT....(1927)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Footnote: For corresponding Dall piston and Burgess-Norton pin numbers see page 203.

Digitized by Google



for BEARING ADJUSTMENTS

You can do the job in much less time when you use LAMINUM. Save labor. Reduce costs. And most important of all, turn out a better adjustment.

LAMINUM peels to the correct thickness, and the shim itself is sturdy and strong. Surface smooth, absolutely accurate. A better shim, made quickly and with minimum effort. You can get Laminated Shims from any jobber or we will send you a sample.

LAMINATED SHIM COMPANY, Inc.
14th Street, Long Island City, N. Y.
Detroit—Charles S. Monson, Curtis Bldg.

Distributed by Federal-Mogul Corp.
502 E. 18th St., Kansas City, Mo.
1601 S. Michigan Ave., Chicago, Ill.
301 West 54th St., New York City, N. Y.
279 Ivy St., Atlanta, Ga.
1128 Jackson St., Dallas, Texas
236 West 15 St., Los Angeles, Calif.
J. C. Adams Company, 11 Davenport Road, Toronto, Ont., Canada.
Pacific Metal Bearings Co., 1710 Howard St., San Francisco, Calif.

LAMINUM

Digitized by Google

ENGINE ASSEMBLY, Section 1—Continued

DIRECTIONS ARE GIVEN ON PAGE 202

Car Make and Model	CRANKSHAFT MAIN BEARINGS				PISTON AND CONNECTING ROD ASSEMBLY			
	Front Main Bearing	†Center Main Bearing	Rear Main Bearing	‡Intermediate Main Bearings	Piston (See Footnote)	Piston Pin (See Footnote)	Piston Pin Bushing	Connecting Rod
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Gardner 90, Lyc. 4HM..(1927)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Gardner 75, Lyc. GT....(1928)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)
Gardner 85, Lyc. GS....(1928)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Gardner 95, Lyc. MD....(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-7 (12)	GN-4 (65)	GO-10 (13)
Gardner 120, Lyc. GT...(1929)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)
Gardner 125, Lyc. GS...(1929)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Gardner 130, Lyc. MD..(1929)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-7 (12)	GN-4 (65)	GO-10 (13)
Graham Paige 610.....(1928-29)	GKA-60 (4)	GKB-63 (4)	GKC-61 (4)	GKD-61 (4)	GL-196 (1)	GM-65 (1)	GN-58 (1)	GO-76 (2)
Graham Paige 614.....(1928-29)	GKA-60 (4)	GKB-63 (4)	GKC-61 (4)	GKD-61 (4)	GL-69 (1)	GM-66 (2)	GN-59 (1)	GO-76 (2)
Graham Paige 619.....(1928-29)	GKA-61 (3)	GKB-64 (3)	GKC-62 (3)	GKD-62 (3)	GL-86 (3)	GM-67 (3)	GN-60 (3)	GO-77 (3)
Graham Paige 629.....(1928-29)	GKA-61 (3)	GKB-64 (3)	GKC-62 (3)	GKD-62 (3)	GL-86 (3)	GM-67 (3)	GN-60 (3)	GO-77 (3)
Graham P. 835, Cont. 12K(1928-29)	GKA-46 (5)	GKB-49 (5)	GKC-47 (5)	GKD-46 (5)	GL-46 (5)	GM-36 (5)	GN-47 (21)	GO-55 (5)
Graham Paige 612.....(1929)	GKA-60 (4)	GKB-63 (4)	GKC-61 (4)	GKD-61 (4)	GL-89 (1)	GM-168 GM-66 (1)	GN-62 (1)	GO-79 (2)
Graham Paige 615.....(1929)	GKA-60 (4)	GKB-63 (4)	GKC-61 (4)	GKD-61 (4)	GL-90 (1)	GM-223 (2)	GN-63 (1)	GO-79 (2)
Graham Paige 621.....(1929)	GKA-61 (3)	GKB-64 (3)	GKC-62 (3)	GKD-62 (3)	GL-86 (3)	GM-67 (3)	GN-60 (3)	GO-77 (3)
Graham P. 827, Cont. 12K(1929)	GKA-46 (5)	GKB-49 (5)	GKC-47 (5)	GKD-46 (5)	GL-46 (5)	GM-36 (5)	GN-47 (21)	GO-55 (5)
Graham P. 837, Cont. 12K(1929)	GKA-46 (5)	GKB-49 (5)	GKC-47 (5)	GKD-46 (5)	GL-46 (5)	GM-36 (5)	GN-47 (21)	GO-55 (5)
Haynes 60.....(1925)	GKA-64 (1)	GKB-67 (1)	GKC-65 (1)	GKB-67 (1)	GL-95 (1)	GM-70 (1)	GN-52 (1)	GO-81 (1)
Hudson Super 6.....(1925)	GKA-65 (3)	GKB-68 (3)	GKC-66 (3)	GKD-65. (3)	GL-96 (3)	GM-71 (3)	GN-64 (3)	GO-82 (3)
Hudson Super 6.....(1926)	GKA-65 (3)	GKB-68 (3)	GKC-66 (3)	GKD-65 (3)	GL-96 (3)	GM-71 (3)	GN-64 (3)	GO-82 (3)
Hudson Super 6.....(1927)	GKA-65 (3)	GKB-68 (3)	GKC-66 (3)	GKD-65 (3)	GL-96 (3)	GM-71 (3)	GN-64 (3)	GO-82 (3)
Hudson Super 6.....(1928)	GKA-66 (2)	GKB-69 (2)	GKC-67 (2)	GKD-66 (2)	GL-96 (3)	GM-71 (3)	GN-64 (3)	GO-83 (2)
Hudson Greater 6.....(1929)	GKA-66 (2)	GKB-69 (2)	GKC-67 (2)	GKD-66 (2)	GL-96 (3)	GM-71 (3)	GN-64 (3)	GO-83 (2)
Hupmobile E1.....(1925-26)	GKA-67 (6)	GKB-70 (6)	GKC-68 (6)	GKD-67 (6)	GL-97 (1)	GM-56 (1)	GN-65 (2)	GO-84 (2)
Hupmobile R.....(1925)	GKA-68 (1)	GKB-71 (1)	GKC-69 (1)	None	GL-98 (1)	GM-73 (1)	GN-66 (1)	GO-85 (1)
Hupmobile E2.....(1926-27)	GKA-67 (6)	GKB-70 (6)	GKC-68 (6)	GKD-67 (6)	GL-99 (2)	GM-56 (2)	GN-65 (2)	GO-84 (2)
Hupmobile A1.....(1926)	GKA-69 (4)	GKB-72 (4)	GKC-70 (4)	GKD-69 (4)	GL-100 (2)	GM-74 (2)	GN-67 (4)	GO-86 (2)
Hupmobile A 2.....(1927)	GKA-69 (4)	GKB-72 (4)	GKC-70 (4)	GKD-69 (4)	GL-100 (2)	GM-74 (2)	GN-67 (4)	GO-86 (2)
Hupmobile E 3.....(1927-28)	GKA-67 (6)	GKB-70 (6)	GKC-68 (6)	GKD-67 (6)	GL-99 (2)	GM-56 (2)	GN-39 (1)	GO-75 (1)
Hupmobile Century 6...(1928)	GKA-69 (4)	GKB-72 (4)	GKC-70 (4)	GKD-69 (4)	GL-101 (2)	GM-75 (2)	GN-67 (4)	GO-87 (2)
Hupmobile Century 8...(1928)	GKA-67 (6)	GKB-70 (6)	GKC-68 (6)	GKD-67 (6)	GL-102 (3)	GM-76 (3)	GN-70 (3)	GO-88 (3)
Hupmobile Century 125.(1928)	GKA-67 (6)	GKB-70 (6)	GKC-68 (6)	GKD-67 (6)	GL-102 (3)	GM-76 (3)	GN-70 (3)	GO-88 (3)
Hupmobile Century 6...(1929)	GKA-69 (4)	GKB-72 (4)	GKC-70 (4)	GKD-69 (4)	GL-101 (2)	GM-75 (2)	GN-67 (4)	GO-87 (2)
Hupmobile M8.....(1928-29)	GKA-67 (6)	GKB-70 (6)	GKC-68 (6)	GKD-67 (6)	GL-102 (3)	GM-76 (3)	GN-70 (3)	GO-88 (3)
Jewett 6-50.....(1925)	GKA-70 (3)	GKB-73 (3)	GKC-71 (3)	None	GL-197 (1)	GM-8 (8)	GN-7 (22)	GO-89 (3)
Jewett New Day 6-40 Cont. 18L(1926)	*GKA-140 (14)	*GKB-8 (15)	*GKC-8 (15)	*GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Jordan K, L, Cont. 6S...(1925)	*GKA-3 (9)	*GKB-75 (1)	*GKC-72 (1)	*GKB-75 (1)	GL- 225 (12)	GM-202 (12)	GN-3 (12)	GO-3 (9)
Jordan A, Cont. 9K.....(1925)	*GKA-72 (3)	*GKB-76 (3)	*GKC-73 (3)	*GKB-76 (3)	GL-45 (10)	GM-45 (6)	GN-6 (6)	GO-90 (3)
Jordan A, Cont. 9K.....(1926)	*GKA-72 (3)	*GKB-76 (3)	*GKC-73 (3)	*GKB-76 (3)	GL-45 (10)	GM-45 (6)	GN-6 (6)	GO-90 (3)
Jordan J, Cont 8S.....(1926)	*GKA-36 (8)	*GKB-39 (8)	*GKC-37 (8)	*GKB-39 (8)	GL-47 (5)	GM-41 (4)	GN-7. (22)	GO-39 (9)
Jordan AA, Cont. 9K....(1927-28)	*GKA-72 (3)	*GKB-76 (3)	*GKC-73 (3)	*GKB-76 (3)	GL-45 (10)	GM-45 (6)	GN-6 (6)	GO-90 (3)
Jordan J, Cont. 8S.....(1927)	*GKA-36 (8)	*GKB-39 (8)	*GKC-37 (8)	*GKB-39 (8)	GL-47 (5)	GM-41 (4)	GN-7 (22)	GO-39 (9)
Jordan R, Cont. 12E....(1927-28)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-49 (4)	GM-47 (6)	GN-47 (21)	GO-91 (2)
Jordan J E, Cont. 14S...(1928-29)	*GKA-36 (8)	*GKB-39 (8)	*GKC-37 (8)	*GKB-39 (8)	GL-226 (10)	GM-43 (4)	GN-40 (6)	GO-39 (9)
Jordan JJ, Cont. 14S....(1928)	GKA-36 (8)	GKB-39 (8)	GKC-37 (8)	GKB-39 (8)	GL-226 (10)	GM-43 (4)	GN-40 (6)	GO-39 (9)
Jordan E, Cont. 16C....(1929)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-50 (11)	GM-48 (12)	GN-47 (21)	GO-91 (2)
Jordan G, Cont. 15S....(1929)	GKA-36 (8)	GKB-39 (8)	GKC-37 (8)	GKB-39 (8)	GL-226 (10)	GM-43 (4)	GN-40 (6)	GO-39 (9)
Kissel 6-55.....(1925)	GKA-74 (3)	GKB-78 (3)	GKC-75 (3)	GKD-74 (3)	GL-111 (3)	GM-79 (3)	GN-74 (3)	GO-92 (3)
Kissel 8-75, Lyc. 3H.....(1925)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-109 (3)	GM-55 (3)	GN-4 (65)	GO-4 (22)
Kissel 6-55.....(1926)	GKA-74 (3)	GKB-78 (3)	GKC-75 (3)	GKD-74 (3)	GL-111 (3)	GM-79 (3)	GN-74 (3)	GO-92 (3)
Kissel 8-75, Lyc. 3H.....(1926)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-109 (3)	GM-55 (3)	GN-4 (65)	GO-4 (22)
Kissel 6-55.....(1927)	GKA-74 (3)	GKB-78 (3)	GKC-75 (3)	GKD-74 (3)	GL-111 (3)	GM-79 (3)	GN-74 (3)	GO-92 (3)
Kissel 8-65, Lyc. GS.....(1927)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Kissel 8-75, Lyc. 3H.....(1927)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-109 (3)	GM-55 (3)	GN-4 (65)	GO-4 (22)
Kissel 6-70, Lyc. WS....(1928)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Kissel 8-80, Lyc. GS.....(1928)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Kissel 8-80S, Lyc. GS...(1928)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Kissel 8-90, Lyc. HM....(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Kissel 6-73, Lyc. WR....(1929)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-208 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Kissel 8-95, Lyc. GS.....(1929)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-9 (16)	GM-10 (16)	GN-4 (65)	GO-9 (23)
Kissel 8-126, Lyc. MD...(1929)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (65)	GO-10 (13)
La Salle 303.....(1927)	GKA-17 (5)	GKB-19 (5)	GKC-18 (5)	None	GL-221 (4)	GM-19 (5)	GN-18 (4)	GO-22 (4)
La Salle 303.....(1928)	GKA-17 (5)	GKB-19 (5)	GKC-18 (5)	None	GL-222 (4)	GM-80 (5)	GN-79 (1)	GO-22 (4)
La Salle 328.....(1929)	GKA-17 (5)	GKB-19 (5)	GKC-18 (5)	None	GL-115 (1)	GM-20 (1)	GN-19 (3)	GO-22 (4)
Lexington Concord Ans. F(1925)	GKA-77 (3)	GKB-81 (3)	GKC-78 (3)	GKD-77 (3)	GL-116 (3)	GM-81 (3)	GN-82 (3)	GO-97 (3)
Lex. Min. Man, Ans. M..(1925)	GKA-77 (3)	GKB-81 (3)	GKC-78 (3)	GKD-77 (3)	GL-116 (3)	GM-81 (3)	GN-82 (3)	GO-97 (3)
Lexington 6-50, Ans. M..(1926)	GKA-77 (3)	GKB-81 (3)	GKC-78 (3)	GKD-77 (3)	GL-116 (3)	GM-81 (3)	GN-82 (3)	GO-97 (3)
Lincoln 8.....(1925)	GKA-78 (5)	GKB-82 (5)	GKC-79 (5)	GKD-78 (5)	GL-118 (3)	GM-82 (3)	GN-83 (3)	GO-100 (3)
Lincoln 8.....(1926)	GKA-78 (5)	GKB-82 (5)	GKC-79 (5)	GKD-78 (5)	GL-118 (3)	GM-82 (3)	GN-83 (3)	GO-100 (3)
Lincoln 8.....(1927)	GKA-78 (5)	GKB-82 (5)	GKC-79 (5)	GKD-78 (5)	GL-118 (3)	GM-82 (3)	GN-83 (3)	GO-100 (3)
Lincoln 8.....(1928)	GKA-78 (5)	GKB-82 (5)	GKC-79 (5)	GKD-78 (5)	GL-194 (2)	GM-164 (2)	GN-165 (2)	GO-180 (3)
Lincoln 8.....(1929-30)	GKA-78 (5)	GKB-82 (5)	GKC-79 (5)	GKD-78 (5)	GL-194 (2)	GM-164 (2)	GN-165 (2)	GO-180 (3)
Locomobile Jr. 6.....(1925)	GKA-79 (1)	GKB-83 (1)	GKC-80 (1)	GKD-79 (1)	GL-119 (1)	GM-83 (1)	GN-84 (4)	GO-101 (1)
Locomobile Jr. 8.....(1925)	GKA-80 (3)	GKB-84 (3)	GKC-81 (3)	GKD-80 (3)	GL-120 (3)	GM-86 (3)	GN-84 (4)	GO-102 (5)
Locomobile 48.....(1925)	GKA-81 (5)	GKB-85 (5)	GKC-82 (5)	GKD-81 (5)	GL-121 (5)	GM-84 (5)	GN-85 (5)	GO-103 (5)
Locomobile 48.....(1926)	GKA-81 (5)	GKB-85 (5)	GKC-82 (5)	GKD-81 (5)	GL-227 (5)	GM-230 (5)	GN-85 (5)	GO-103 (5)
Locomobile 90.....(1926)	GKA-82 (4)	GKB-86 (4)	GKC-83 (4)	GKD-82 (4)	GL-122 (4)	GM-85 (4)	GN-86 (1)	GO-104 (4)
Locomobile Jr. 8.....(1926)	GKA-80 (3)	GKB-84 (3)	GKC-81 (3)	GKD-80 (3)	GL-120 (3)	GM-86 (3)	GN-84 (4)	GO-102 (5)
Locomobile 48.....(1927)	GKA-81 (5)	GKB-85 (5)	GKC-82 (5)	GKD-81 (5)	GL-227 (5)	GM-230 (5)	GN-85 (5)	GO-103 (5)
Locomobile 8-66.....(1927)	GKA-80 (3)	GKB-84 (3)	GKC-81 (3)	GKD-80 (3)	GL-120 (3)	GM-86 (3)	GN-84 (4)	GO-102 (5)
Loco. 8-80, Lyc. HD....(1927)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (12)	GN-4 (65)	GO-10 (13)
Locomobile 90.....(1927)	GKA-82 (4)	GKB-86 (4)	GKC-83 (4)	GKD-82 (4)	GL-122 (4)	GM-85 (4)	GN-88 (1)	GO-104 (4)
Locomobile 48.....(1928)	GKA-81 (5)	GKB-85 (5)	GKC-82 (5)	GKD-81 (5)	GL-227 (5)	GM-230 (5)	GN-85 (5)	GO-103 (5)
Loco. 8-80, Lyc. HD....(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (65)	GO-10 (13)
Locomobile 90.....(1928)	GKA-82 (4)	GKB-86 (4)	GKC-83 (4)	GKD-82 (4)	GL-122 (4)	GM-85 (4)	GN-90 (2)	GO-104 (4)
Loco. 8-70, Cont. 8S.....(1928-29)	GKA-36 (8)	GKB-39 (8)	GKC-37 (8)	GKB-39 (8)	GL-47 (5)	GM-41 (8)	GN-40 (6)	GO-39 (9)
Locomobile 48.....(1929)	GKA-81 (5)	GKB-85 (5)	GKC-82 (5)	GKD-81 (5)	GL-227 (5)	GM-230 (5)	GN-85 (5)	GO-103 (5)
Loco. 8-80, Lyc. HD....(1929)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (65)	GO-10 (13)
Loco. 86, 88, Lyc. HDL..(1929)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-223 (31)	GM-4 (12)	GN-4 (65)	GO-10 (13)
Locomobile 90.....(1929)	GKA-82 (4)	GKB-86 (4)	GKC-83 (4)	GKD-82 (4)	GL-122 (4)	GM-85 (4)	GN-90 (2)	GO-104 (4)
Marmon 74.....(1925)	GKA-83 (4)	GKB-87 (4)	GKC-84 (4)	GKD-83 (4)	GL-123 (5)	GM-88 (4)	GN-91 (4)	GO-105 (2)
Marmon 74.....(1926)	GKA-83 (4)	GKB-87 (4)	GKC-84 (4)	GKD-83 (4)	GL-123 (5)	GM-88 (4)	GN-91 (4)	GO-105 (2)
Marmon, Little.....(1927)	GKA-84 (3)	GKB-88 (3)	GKC-85 (3)	GKD-84 (3)	GL-117 (1)	GM-77 (1)	GN-92 (3)	GO-106 (1)
Marmon E-75.....(1927)	GKA-83 (4)	GKB-87 (4)	GKC-84 (4)	GKD-83 (4)	GL-214 (5)	GM-88 (4)	GN-91 (4)	GO-107 (2)
Marmon E-75.....(1928)	GKA-83 (4)	GKB-87 (4)	GKC-84 (4)	GKD-83 (4)	GL-214 (5)	GM-88 (4)	GN-91 (4)	GO-107 (2)
Marmon 78.....(1928)	GKA-84 (3)	GKB-88 (3)	GKC-85 (3)	GKD-84 (3)	GL-125 (2)	GM-87 (2)	GN-92 (3)	GO-109 (2)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Footnote: For corresponding Dall piston and Burgess-Norton pin numbers see page 203.

Digitized by Google

NOW A 100% COMPLETE BEARING SERVICE

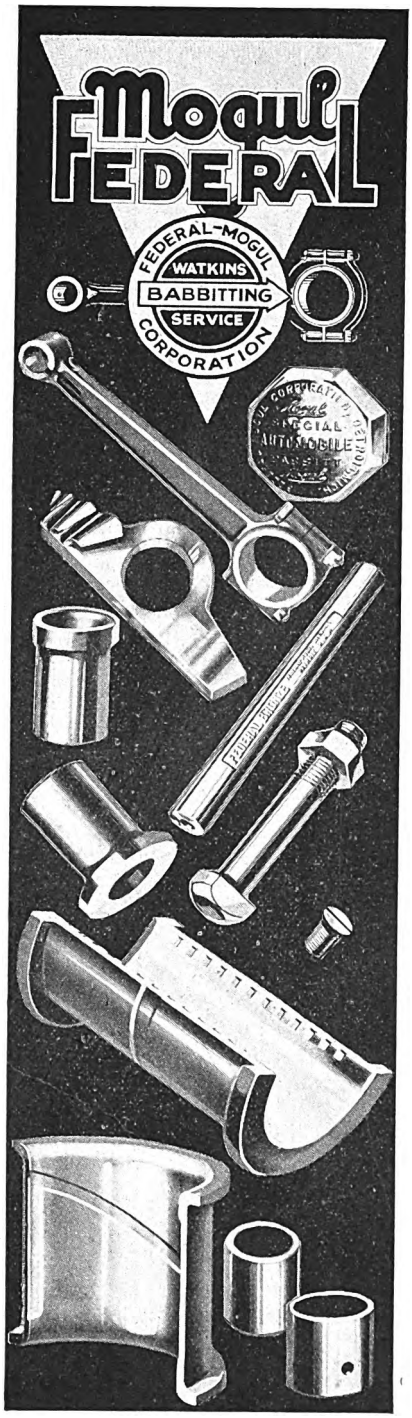
ONE STANDARD OF QUALITY . . . . . ONE SOURCE OF SUPPLY . . . . . .

for every Bearing Requirement

Federal-Mogul bearing service, combined with Watkins Connecting Rod Babbitting Service, presents to the automotive trade the one and only 100% complete bearing service . . . service on every part used in the bearing assembly.

This service is more than a mere source of supply for parts. It is a service on bearings, bushings, bronze bars and babbitt metals backed by an engineering, technical, and metallurgical staff that has made history in its field by satisfying leading automotive manufacturers since 1899. The replacement trade likewise has been served by these same dependable facilities.

This background of experience and skill now stands back of every Watkins Babbitted Connecting Rod. Watkins Rods are babbitted with genuine Federal-Mogul babbitt, and completely rebuilt with new nuts, bolts, bushings and Laminum shims. A nation-wide group of manufacturing plants, and a widespread jobbing organization bring this prompt, efficient service as near you as your telephone.



The Complete Federal-Mogul Replacement Line

Bronze-Back, Babbitt-Lined, and Die-Cast Connecting Rod and Main Bearings (Standard and Undersize)
Piston Pin Bushings
Connecting Rod Bolts and Nuts
Bearing Anchor Screws
Laminum Shims
Bronze Bars and Babbitt Metals
Babbitting Service
Connecting Rod Exhange Service

FEDERAL-MOGUL WAREHOUSES

LOS ANGELES, CALIF. 236 W. 15th Street
SAN FRANCISCO, CALIF. 1710 Howard St.
TORONTO, CANADA 40 Lombard St.
ATLANTA, GEORGIA 279 Ivy Street
CHICAGO, ILLINOIS 160f S. Michigan Ave.
INDIANAPOLIS, IND. 19-29 W. South St.
BOSTON, MASS. 61 Kilnarnock St.
DETROIT, MICHIGAN 4809 John R Street
KANSAS CITY, MO. 502 E. 18th Street
NEW YORK, N. Y. 301 W. 54th Street
PHILADELPHIA, PA. 2323 No. 11th St.
DALLAS, TEXAS 2403-05 S. Ervay Street

WATKINS BABBITTING PLANTS OWNED AND OPERATED BY FEDERAL-MOGUL AT:

SAN FRANCISCO, CALIF. 1710 Howard St.
TORONTO, CANADA 40 Lombard St.
E. HARTFORD, CONN. 251 Connecticut Blvd.
ATLANTA, GEORGIA 29 Harris St., N.W.
CHICAGO, ILLINOIS 2346 So. Dearborn St.
INDIANAPOLIS, IND. 19-29 W. South St.
WICHITA, KANSAS 200 No. Waco Ave.
DETROIT, MICHIGAN 4809 John R Street
SYRACUSE, N. Y. 310 W. Taylor Street
PHILADELPHIA, PA. 2323 No. 11th St.
PITTSBURGH, PA. 5708 Harvard St., E.E.
DALLAS, TEXAS 2230 San Jacinto St.

FEDERAL-MOGUL CORPORATION

OPERATING WATKINS BABBITTING SERVICE
DETROIT, MICHIGAN

Digitized by Google

ENGINE ASSEMBLY, Section 1—Continued

DIRECTIONS ARE GIVEN ON PAGE 202

Car Make and Model	CRANKSHAFT MAIN BEARINGS				PISTON AND CONNECTING ROD ASSEMBLY			
	Front Main Bearing	†Center Main Bearing	Rear Main Bearing	‡Intermediate Main Bearings	Piston (See Footnote)	Piston Pin (See Footnote)	Piston Pin Bushing	Connecting Rod
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Marmon-Roosevelt.....(1929-30)	GKA-85 (2)	GKB-89 (2)	GKC-86 (2)	GKD-85 (2)	GL-220 (1)	GM-89 (2)	GN-93 (2)	GO-108 (2)
Marmon 68.....(1929)	GKA-85 (2)	GKB-89 (2)	GKC-86 (2)	GKD-85 (2)	GL-124 (1)	GM-89 (2)	GN-93 (2)	GO-108 (2)
Marmon 78.....(1929)	GKA-84 (3)	GKB-88 (3)	GKC-85 (3)	GKD-84 (3)	GL-125 (2)	GM-87 (2)	GN-92 (3)	GO-109 (2)
Maxwell.....(1925)	GKA-27 (5)	GKB-29 (5)	GKC-28 (5)	None	GL-33 (6)	GM-30 (5)	None	GO-33 (5)
Moon Series A, Cont. 7Z.(1925)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-113 (4)	GM-231 (11)	GN-2 (11)	GO-2 (11)
Moon Series A, Cont. 7Z (1926)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-113 (4)	GM-231 (11)	GN-2 (11)	GO-2 (11)
Moon Series A, Cont. 7Z (1927)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-113 (4)	GM-231 (11)	GN-2 (11)	GO-2 (11)
Moon 6-60, Cont. 26L...(1927)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-7 (5)	GM-8 (8)	GN-7 (22)	GO-8 (15)
Moon Series A, Cont. 7Z (1928)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-113 (4)	GM-231 (11)	GN-2 (10)	GO-2 (11)
Moon 6-60, Cont. 26L...(1928)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-7 (5)	GM-8 (8)	GN-7 (22)	GO-8 (15)
Moon 8-80, Cont. 15S...(1928)	GKA-76 (1)	GKB-12 (2)	GKC-11 (2)	GKB-12 (2)	GL-226 (11)	GM-41 (4)	GN-40 (6)	GO-39 (1)
Moon 6 72, Cont 11E...(1929)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-50 (11)	GM-48 (12)	GN-47 (21)	GO-91 (6)
Nash Advanced 6.....(1925)	GKA-88 (1)	GKB-91 (1)	GKC-88 (1)	None	GL-128 (4)	GM-93 (1)	GN-100 (5)	GO-111 (2)
Nash Special 6.....(1925)	GKA-89 (2)	GKB-92 (2)	GKC-89 (2)	None	GL-129 (4)	GM-94 (1)	GN-101 (5)	GO-113 (2)
Nash Advanced 6.....(1926)	GKA-90 (4)	GKB-93 (4)	GKC-90 (4)	GKD-89 (5)	GL-128 (4)	GM-93 (5)	GN-100 (5)	GO-111 (2)
Nash Special 6.....(1926)	GKA-89 (2)	GKB-92 (2)	GKC-89 (2)	GKD-88 (3)	GL-212 (4)	GM-94 (3)	GN-101 (5)	GO-113 (2)
Nash Advanced 6.....(1927)	GKA-90 (4)	GKB-93 (4)	GKC-90 (4)	GKD-89 (5)	GL-128 (4)	GM-93 (5)	GN-100 (5)	GO-112 (3)
Nash Special 6.....(1927)	GKA-91 (3)	GKB-94 (3)	GKC-91 (3)	GKD-88 (3)	GL-213 (4)	GM-94 (5)	GN-101 (5)	GO-114 (3)
Nash Light Six.....(1927)	GKA-1 (2)	GKB-1 (2)	GKC-1 (2)	GKD-1 (2)	GL-1 (2)	GM-1 (2)	GN-1 (2)	GO-1 (2)
Nash Advanced 6.....(1928)	GKA-90 (4)	GKB-93 (4)	GKC-90 (4)	GKD-89 (5)	GL-128 (4)	GM-93 (5)	GN-100 (5)	GO-112 (3)
Nash Special 6.....(1928)	GKA-91 (3)	GKB-94 (3)	GKC-91 (3)	GKD-89 (5)	GL- 213 (4)	GM-94 (5)	GN-101 (5)	GO-114 (3)
Nash Std. 6.....(1928)	GKA-92 (2)	GKB-95 (2)	GKC-92 (2)	GKD-91 (2)	GL-107 (1)	GM-97 (1)	GN-102 (2)	GO-115 (2)
Nash Advanced 6.....(1929)	GKA-90 (4)	GKB-93 (4)	GKC-90 (4)	GKD-89 (5)	GL-106 (1)	GM-96 (1)	GN-100 (5)	GO-112 (3)
Nash Special 6.....(1929)	GKA-91 (3)	GKB-94 (3)	GKC-91 (3)	GKD-88 (3)	GL-105 (1)	GM-98 (1)	GN-101 (5)	GO-114 (3)
Nash Std. 6.....(1929-30)	GKA-92 (2)	GKB-95 (2)	GKC-92 (2)	GKD-91 (2)	GL-91 (1)	GM-95 (1)	GN-102 (2)	GO-115 (2)
Oakland 6-54.....(1925)	GKA-93 (1)	GKB-96 (1)	GKC-93 (3)	None	GL-130 (1)	GM-99 (1)	GN-103 (1)	GO-116 (1)
Oakland 6.....(1926)	GKA-94 (2)	GKB-97 (2)	GKC-93 (3)	None	GL-131 (2)	GM-100 (1)	GN-104 (1)	GO-117 (2)
Oakland 6.....(1927)	GKA-94 (2)	GKB-97 (2)	GKC-93 (3)	None	GL-217 (2)	GM-165 (1)	GN-97 (1)	GO-117 (2)
Oakland AA-6.....(1928)	GKA-95 (2)	GKB-98 (2)	GKC-95 (2)	GKD-94 (2)	GL-132 (4)	GM-101 (4)	GN-105 (4)	GO-118 (2)
Oakland AA-6.....(1929)	GKA-95 (2)	GKB-98 (2)	GKC-95 (2)	GKD-94 (2)	GL-133 (1)	GM-102 (1)	GN-106 (2)	GO-118 (2)
Oldsmobile C.....(1925)	GKA-96 (1)	GKB-99 (3)	GKC-96 (1)	None	GL-134 (2)	GM-103 (3)	GN-107 (3)	GO-119 (1)
Oldsmobile D.....(1926)	GKA-97 (2)	GKB-100 (2)	GKC-97 (2)	None	GL-134 (2)	GM-103 (3)	GN-107 (3)	GO-110 (2)
Oldsmobile E.....(1927)	GKA-97 (2)	GKB-100 (2)	GKC-97 (2)	None	GL-135 (1)	GM-103 (3)	GN-107 (3)	GO-110 (2)
Oldsmobile F-28.....(1928)	GKA-98 (2)	GKB-101 (2)	GKC-98 (2)	GKD-97 (2)	GL-136 (2)	GM-104 (1)	GN-108 (2)	GO-120 (2)
Oldsmobile F-29.....(1929)	GKA-98 (2)	GKB-101 (2)	GKC-98 (2)	GKD-97 (2)	GL-216 (2)	GM-233 (1)	GN-108 (2)	GO-120 (2)
Overland 91.....(1925)	GKA-99 (2)	GKA-99 (3)	GKC-99 (2)	None	GL-137 (2)	GM-105 (2)	GN-109 (2)	GO-121 (2)
Overland 93.....(1925)	GKA-100 (3)	GKB-103 (3)	GKC-100 (3)	None	GL-138 (3)	GM-106 (3)	GN-110 (3)	GO-122 (3)
Overland 91.....(1926)	GKA-99 (2)	GKA-99 (3)	GKC-99 (2)	None	GL-137 (2)	GM-105 (2)	GN-109 (2)	GO-121 (2)
Overland 93.....(1926)	GKA-100 (3)	GKB-103 (3)	GKC-100 (3)	None	GL-138 (3)	GM-106 (3)	GN-110 (3)	GO-122 (3)
Packard 6 Cyl., 326,333..(1925)	GKA-104 (4)	GKB-107 (4)	GKC-104 (4)	GKD-103 (4)	GL-140 (2)	GM-109 (8)	GN-112 (11)	GO-125 (2)
Packard 8 Cyl., 236,243..(1925)	GKA-104 (4)	GKB-107 (4)	GKC-104 (4)	GKD-103 (4)	GL-140 (2)	GM-110 (2)	GN-112 (11)	GO-125 (2)
Packard 6 Cyl., 326,333..(1926)	GKA-104 (4)	GKB-107 (4)	GKC-104 (4)	GKD-103 (4)	GL-141 (4)	GM-109 (8)	GN-112 (11)	GO-126 (2)
Packard 8 Cyl., 236,243..(1926)	GKA-104 (4)	GKB-107 (4)	GKC-104 (4)	GKD-103 (4)	GL-141 (4)	GM-110 (2)	GN-112 (11)	GO-126 (2)
Packard 6 Cyl., 426,433..(1927)	GKA-149 (6)	GKB-151 (6)	GKC-148 (6)	GKD-147 (6)	GL-141 (4)	GM-109 (8)	GN-112 (11)	GO-127 (6)
Packard 8 Cyl., 336,343..(1927)	GKA-149 (6)	GKB-151 (6)	GKC-148 (6)	GKD-147 (6)	GL-141 (4)	GM-109 (8)	GN-112 (11)	GO-127 (6)
Packard 526.....(1928)	GKA-149 (6)	GKB-151 (6)	GKC-148 (6)	GKD-147 (6)	GL-142 (4)	GM-109 (8)	GN-112 (11)	GO-127 (6)
Packard Std. 8 cyl. 443. (1928)	GKA-149 (6)	GKB-151 (6)	GKC-148 (6)	GKD-147 (6)	GL-142 (4)	GM-109 (8)	GN-112 (11)	GO-127 (6)
Packard 533.....(1928)	GKA-149 (5)	GKB-151 (5)	GKC-148 (5)	GKD-147 (5)	GL-142 (4)	GM-109 (8)	GN-112 (11)	GO-127 (6)
Packard 8 Cyl. 626,633..(1929)	GKA-150 (1)	GKB-152 (1)	GKC-149 (1)	GKD-148 (1)	GL-179 (1)	GM-90 (1)	GN-112 (11)	GO-128 (1)
Packard 8 Cyl. 640,645..(1929)	GKA-151 (1)	GKB-153 (1)	GKC-150 (1)	GKD-149 (1)	GL-142 (4)	GM-109 (8)	GN-112 (11)	GO-130 (1)
Paige 6-70, Cont. 10A...(1925-26)	*GKA-31 (4)	*GKB-10 (4)	*GKC-31 (4)	*GKB-10 (4)	GL-24 (5)	GM-21 (5)	GN-20 (5)	GO-24 (2)
Paige 6-72.....(1926)	GKA-106 (1)	GKB-109 (1)	GKC-106 (1)	GKD-105 (1)	GL-215 (6)	GM-111 (2)	GN-114 (1)	GO-132 (1)
Paige 6-45, Cont. 19L...(1927-28)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-7 (5)	GM-8 (8)	GN-7 (22)	GO-8 (15)
Paige 6-65.....(1927-28)	GKA-70 (3)	GKB-73 (3)	GKC-71 (3)	None	GL-103 (1)	GM-111 (2)	GN-7 (22)	GO-89 (3)
Paige 6-75.....(1927-28)	GKA-70 (3)	GKB-73 (3)	GKC-71 (3)	None	GL-145 (1)	GM-113 (1)	GN-116 (1)	GO-89 (3)
Paige 8-85, Lyc. MD....(1927-28)	GKA-5 (56)	GKB-5 (56)	GKC-5 (56)	GKD-5 (56)	GL-4 (31)	GM-7 (12)	GN-4 (65)	GO-10 (13)
Peerless 70.....(1925)	GKA-107 (1)	GKB-110 (1)	GKC-107 (1)	GKD-106 (1)	GL-114 (1)	GM-114 (1)	GN-117 (1)	GO-133 (1)
Peerless 80, Cont. 8U....(1926)	*GKA-35 (8)	*GKB-37 (8)	*GKC-36 (8)	*GKD-35 (8)	GL-42 (8)	GM-40 (5)	GN-38 (8)	GO-44 (5)
Peerless 69.....(1926)	GKA-108 (3)	GKB-111 (3)	GKC-108 (3)	GKD-107 (3)	GL-147 (3)	GM-115 (3)	GN-118 (3)	GO-134 (3)
Peerless 69.....(1927)	GKA-108 (3)	GKB-111 (3)	GKC-108 (3)	GKD-107 (3)	GL-147 (3)	GM-115 (3)	GN-118 (3)	GO-134 (3)
Peerless 80, Cont. 8U....(1927)	GKA-35 (8)	GKB-37 (8)	GKC-36 (8)	GKD-35 (8)	GL-42 (8)	GM-47 (6)	GN-38 (8)	GO-44 (5)
Peerless 90.....(1927-28)	GKA-109 (4)	GKB-112 (4)	GKC-109 (4)	GKD-108 (4)	GL-234 (4)	GM-116 (3)	GN-47 (21)	GO-135 (4)
Peerless 72.....(1928)	GKA-109 (4)	GKB-112 (4)	GKC-109 (4)	GKD-108 (4)	GL-146 (4)	GM-112 (1)	GN-47 (21)	GO-135 (4)
Peerless 60, Cont. 10E...(1928)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-49 (4)	GM-47 (6)	GN-47 (21)	GO-91 (6)
Peerless 69.....(1928)	GKA-108 (3)	GKB-111 (3)	GKC-108 (3)	GKD-107 (3)	GL-147 (3)	GM-115 (3)	GN-118 (3)	GO-134 (3)
Peerless 80, Cont. 8U....(1928)	GKA-35 (8)	GKB-37 (8)	GKC-36 (8)	GKD-35 (8)	GL-42 (8)	GM-47 (6)	GN-38 (8)	GO-44 (5)
Peerless 91.....(1928)	GKA-109 (4)	GKB-112 (4)	GKC-109 (4)	GKD-108 (4)	GL-234 (4)	GM-116 (3)	GN-47 (21)	GO-135 (4)
Peerless 61, Cont. 11E...(1929)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-50 (11)	GM-48 (12)	GN-47 (21)	GO-91 (6)
Peerless 81, Cont. 18C...(1929)	GKA-35 (8)	GKB-37 (8)	GKC-36 (8)	GKD-35 (8)	GL-50 (11)	GM-48 (12)	GN-47 (21)	GO-58 (4)
Peerless 91.....(1929)	GKA-109 (4)	GKB-112 (4)	GKC-109 (4)	GKD-108 (4)	GL-234 (4)	GM-116 (3)	GN-47 (21)	GO-135 (4)
Peerless 125, Cont. 12K..(1929)	GKA-46 (5)	GKB-49 (5)	GKC-47 (5)	GKD-46 (5)	GL-46 (6)	GM-36 (5)	GN-47 (21)	GO-55 (5)
Pierce Arrow 80.....(1925)	GKA-111 (4)	GKB-114 (4)	GKC-111 (4)	GKD-110 (4)	GL-149 (3)	GM-118 (3)	GN-121 (3)	GO-138 (1)
Pierce Arrow 33.....(1926)	GKA-112 (3)	GKB-115 (3)	GKC-112 (3)	GKD-111 (3)	GL-150 (3)	GM-119 (3)	GN-122 (1)	GO-139 (3)
Pierce Arrow 80.....(1926)	GKA-111 (4)	GKB-114 (4)	GKC-111 (4)	GKD-110 (4)	GL-149 (3)	GM-118 (3)	GN-121 (3)	GO-124 (2)
Pierce Arrow 36.....(1927)	GKA-112 (3)	GKB-115 (3)	GKC-112 (3)	GKD-111 (3)	GL-150 (3)	GM-119 (3)	GN-123 (2)	GO-139 (3)
Pierce Arrow 80.....(1927)	GKA-111 (4)	GKB-114 (4)	GKC-111 (4)	GKD-110 (4)	GL-149 (3)	GM-118 (3)	GN-121 (3)	GO-124 (2)
Pierce Arrow 36.....(1928)	GKA-112 (3)	GKB-115 (3)	GKC-112 (3)	GKD-111 (3)	GL-150 (3)	GM-119 (3)	GN-123 (2)	GO-139 (3)
Pierce Arrow 81.....(1928)	GKA-111 (4)	GKB-114 (4)	GKC-111 (4)	GKD-110 (4)	GL-151 (1)	GM-120 (1)	GN-124 (1)	GO-140 (1)
Pierce Arrow 133, 143...(1929)	GKA-113 (1)	GKB-116 (1)	GKC-113 (1)	GKD-112 (1)	GL-178 (1)	GM-147 (1)	GN-125 (1)	GO-141 (1)
Plymouth 4 Cyl.....(1929)	GKA-27 (5)	GKB-29 (5)	GKC-28 (5)	None	GL-33 (5)	GM-30 (5)	None	GO-33 (5)
Pontiac 6.....(1926)	GKA-114 (3)	GKB-117 (3)	GKC-114 (3)	None	GL-233 (4)	GM-101 (4)	GN-105 (4)	GO-142 (3)
Pontiac 6.....(1927)	GKA-114 (3)	GKB-117 (3)	GKC-114 (3)	None	GL-233 (4)	GM-101 (4)	GN-105 (4)	GO-142 (3)
Pontiac 6.....(1928)	GKA-114 (3)	GKB-117 (3)	GKC-114 (3)	None	GL-233 (4)	GM-101 (4)	GN-105 (4)	GO-142 (3)
Pontiac Big 6.....(1929-30)	GKA-75 (3)	GKB-102 (1)	GKC-105 (1)	GKD-113 (1)	GL-154 (1)	GM-122 (1)	GN-106 (2)	GO 143 (1)
Reo T 6.....(1925)	GKA-115 (2)	GKB-118 (2)	GKC-115 (2)	GKB-118 (2)	GL-155 (2)	GM-123 (2)	GN-127 (4)	GO-144 (2)
Reo T 6.....(1926-27)	GKA-115 (2)	GKB-118 (2)	GKC-115 (2)	GKB-118 (2)	GL-155 (2)	GM-123 (2)	GN-127 (4)	GO-144 (2)
Reo Flying Cloud.....(1927)	GKA-116 (3)	GKB-119 (3)	GKC-116 (3)	GKD-115 (3)	GL-156 (2)	GM-124 (3)	GN-127 (4)	GO-145 (3)
Reo Wol., Cont. 15E....(1927)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-49 (4)	GM-47 (6)	GN-47 (21)	GO-91 (6)
Reo Flying Cloud.....(1928)	GKA-116 (3)	GKB-119 (3)	GKC-116 (3)	GKD-115 (3)	GL-156 (2)	GM-124 (3)	GN-127 (4)	GO-145 (3)
Reo Wol., Cont. 15E....(1928)	GKA-50 (9)	GKB-51 (9)	GKC-49 (9)	GKD-45 (9)	GL-49 (4)	GM-47 (6)	GN-47 (21)	GO-91 (6)
Reo Fly. Cloud Master..(1929)	GKA-116 (3)	GKB-119 (3)	GKC-116 (3)	GKD-115 (3)	GL-157 (2)	GM-232 (3)	GN-128 (1)	GO-145 (3)
Reo F. C. Mate, Ct. 16C (1929)	GKA-35 (8)	GKB-37 (8)	GKC-36 (8)	GKD-35 (8)	GL-50 (8)	GM-48 (12)	GN-47 (21)	GO-91 (6)
Rickenbacker D 6.....(1925)	GKA-120 (6)	GKB-122 (6)	GKC-120 (6)	GKD-119 (6)	GL-160 (2)	GM-126 (3)	GN-131 (2)	GO-148 (3)
Rickenbacker 8 B.....(1926)	GKA-120 (6)	GKB-122 (6)	GKC-120 (6)	GKD-119 (6)	GL-159 (1)	GM-127 (2)	GN-131 (2)	GO-149 (3)
Rickenbacker 6 E.....(1926)	GKA-120 (6)	GKB-122 (6)	GKC-120 (6)	GKD-119 (6)	GL-160 (2)	GM-126 (3)	GN-132 (4)	GO-148 (3)
Rickenbacker 6-70.....(1927)	GKA-120 (6)	GKB-122 (6)	GKC-120 (6)	GKD-119 (6)	GL-153 (1)	GM-126 (3)	GN-132 (4)	GO-148 (3)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Footnote: For corresponding Dall piston and Burgess-Norton pin numbers see page 203.

Digitized by Google

ENGINE ASSEMBLY, Section 1—Continued

DIRECTIONS ARE GIVEN ON PAGE 202

Car Make and Model	CRANKSHAFT MAIN BEARINGS				PISTON AND CONNECTING ROD ASSEMBLY			
	Front Main Bearing	†Center Main Bearing	Rear Main Bearing	‡Intermediate Main Bearings	Piston (See Footnote)	Piston Pin (See Footnote)	Piston Pin Bushing	Connecting Rod
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Rickenbacker 8-80.....(1927)	GKA-120 (6)	GKB-122 (6)	GKC-120 (6)	GKD-119 (6)	GL-144 (1)	GM-129 (1)	GN-132 (4)	GO-149 (3)
Rickenbacker 8-90.....(1927)	GKA-120 (6)	GKB-122 (6)	GKC-120 (6)	GKD-119 (6)	GL-143 (1)	GM-127 (2)	GN-132 (4)	GO-149 (3)
Roamer 4-75 E.....(1925)	GKA-121 (2)	GKB-124 (2)	GKC-121 (2)	None	GL-161 (2)	GM-131 (2)	GN-134 (2)	GO-150 (2)
Roamer 6-54 E.....(1925)	GKA-122 (1)	GKB-125 (1)	GKC-122 (1)	GKD-121 (1)	GL-162 (1)	GM-132 (1)	GN-135 (1)	GO-151 (1)
Roamer 4-75 E.....(1926)	GKA-121 (2)	GKB-124 (2)	GKC-121 (2)	None	GL-161 (2)	GM-131 (2)	GN-134 (2)	GO-150 (2)
Roamer 6-50, Cont. 7U..(1925-26)	*GKA-2 (11)	*GKB-2 (11)	*GKC-2 (11)	*GKB-2 (11)	GL-2 (7)	GM-2 (11)	GN-2 (11)	GO-2 (11)
Roamer 8-88, Lyc. H....(1925)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-5 (6)	GM-4 (21)	GN-4 (65)	GO-5 (5)
Roamer 8-88, Lyc. H....(1926)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Roamer 8-88, Lyc. 4H....(1927)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Roamer 8-80, Lyc. 4HM.(1926-27)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Roamer 8-78, Lyc. GT...(1927)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)
Roamer 8-78, Lyc. GT...(1928)	GKA-8 (25)	GKB-9 (25)	GKC-9 (25)	GKD-8 (25)	GL-8 (9)	GM-9 (9)	GN-4 (65)	GO-9 (23)
Roamer 8-80, Lyc. 4HM.(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Roamer 8-88, Lyc. 4H...(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Roamer 8-80, Lyc. 4HM.(1929)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Roamer 8-88, Lyc. 4H...(1929)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-4 (22)
Rollin G.....(1925)	GKA-123 (1)	GKB-126 (1)	GKC-123 (1)	GKD-122 (1)	GL-164 (1)	GM-133 (1)	GN-130 (1)	GO-152 (1)
Star F, Cont. W5.....(1925)	*GKA-48 (5)	*GKB-52 (5)	*GKC-50 (5)	None	GL-57 (5)	GM-44 (5)	GN-49 (5)	GO-57 (5)
Star M, Cont. W5.....(1926)	*GKA-48 (5)	*GKB-52 (5)	*GKC-50 (5)	None	GL-57 (5)	GM-44 (5)	GN-49 (5)	GO-57 (5)
Star R, Cont. 14L.....(1926)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Star M, Cont. W5.....(1927-28)	*GKA-48 (5)	*GKB-52 (5)	*GKC-50 (5)	None	GL-57 (5)	GM-44 (5)	GN-49 (5)	GO-57 (5)
Star R, Cont. 14L.....(1927-28)	GKA-140 (14)	GKB-8 (15)	GKC-8 (15)	GKB-8 (15)	GL-43 (8)	GM-42 (8)	GN-7 (22)	GO-8 (15)
Stearns Kni. B, 4 Cyl....(1925)	GKA-125 (2)	GKB-128 (2)	GKC-125 (2)	GKD-124 (2)	GL-169 (2)	GM-135 (4)	GN-139 (2)	GO-155 (2)
Stearns Knight C, 6 Cyl..(1925)	GKA-126 (1)	GKB-129 (1)	GKC-126 (1)	GKD-125 (1)	GL-170 (2)	GM-135 (4)	GN-140 (1)	GO-156 (1)
Stearns Knight S, 6 Cyl..(1925)	GKA-124 (1)	GKB-127 (1)	GKC-124 (1)	GKD-123 (1)	GL-168 (1)	GM-134 (1)	GN-141 (1)	GO-154 (1)
Stearns Knight B, 4 Cyl..(1926)	GKA-125 (2)	GKB-128 (2)	GKC-125 (2)	GKD-124 (2)	GL-169 (2)	GM-135 (4)	GN-139 (2)	GO-155 (2)
Stearns Knight C-75.....(1926)	GKA-128 (1)	GKB-131 (1)	GKC-128 (1)	GKD-127 (1)	GL-170 (2)	GM-137 (1)	GN-142 (1)	GO-158 (1)
Stearns Knight S-95.....(1926)	GKA-127 (4)	GKB-130 (4)	GKC-127 (4)	GKD-126 (4)	GL-171 (6)	GM-135 (4)	GN-143 (1)	GO-157 (4)
Stearns Knight F 6-85...(1927)	GKA-129 (2)	GKB-132 (2)	GKC-129 (2)	GKD-128 (2)	GL-171 (6)	GM-139 (2)	GN-144 (5)	GO-99 (2)
Stearns Knight G 8-85...(1927-28)	GKA-127 (4)	GKB-130 (4)	GKC-127 (4)	GKD-126 (4)	GL-171 (6)	GM-140 (3)	GN-144 (5)	GO-157 (4)
Stearns Knight F 6-85...(1928)	GKA-129 (2)	GKB-132 (2)	GKC-129 (2)	GKD-128 (2)	GL-171 (6)	GM-139 (2)	GN-144 (5)	GO-99 (2)
Stearns Knight H, J 8-90.(1928)	GKA-127 (4)	GKB-130 (4)	GKC-127 (4)	GKD-126 (4)	GL-171 (6)	GM-140 (3)	GN-144 (5)	GO-157 (4)
Stearns Knight H, J 8-90.(1929)	GKA-127 (4)	GKB-130 (4)	GKC-127 (4)	GKD-126 (4)	GL-171 (6)	GM-140 (3)	GN-144 (5)	GO-157 (4)
Stearns Knight M, N 6-80(1928-29)	GKA-130 (1)	GKB-133 (1)	GKC-130 (1)	GKD-129 (1)	GL-172 (1)	GM-142 (1)	GN-145 (1)	GO-159 (1)
Studebaker Special 6....(1925)	GKA-132 (5)	GKB-135 (5)	GKC-132 (5)	GKD-131 (5)	GL-175 (3)	GM-145 (3)	GN-148 (3)	GO-161 (7)
Studebaker Std. 6.....(1925)	GKA-133 (3)	GKB-136 (3)	GKC-133 (3)	GKD-132 (3)	GL-176 (2)	GM 146 (5)	GN-149 (5)	GO-162 (5)
Studebaker Big 6.....(1925-26)	GKA-132 (5)	GKB-135 (5)	GKC-132 (5)	GKD-131 (5)	GL-174 (4)	GM-144 (4)	GN-147 (4)	GO-161 (7)
Studebaker Std. 6.....(1926)	GKA-133 (3)	GKB-136 (3)	GKC-133 (3)	GKD-132 (3)	GL-176 (2)	GM-146 (5)	GN-149 (5)	GO-162 (5)
Studebaker Special 6....(1926)	GKA-132 (5)	GKB-135 (5)	GKC-132 (5)	GKD-131 (5)	GL-175 (3)	GM-145 (3)	GN-148 (3)	GO-161 (7)
Studebaker Big 6.....(1927)	GKA-132 (5)	GKB-135 (5)	GKC-132 (5)	GKD-131 (5)	GL-174 (4)	GM-144 (4)	GN-147 (4)	GO-161 (7)
Studebaker Special 6....(1927)	GKA-132 (5)	GKB-135 (5)	GKC-132 (5)	GKD-131 (5)	GL-175 (3)	GM-145 (3)	GN-148 (3)	GO-161 (7)
Studebaker Std. 6.....(1927)	GKA-133 (3)	GKB-136 (3)	GKC-133 (3)	GKD-132 (3)	GL-176 (3)	GM-146 (5)	GN-149 (5)	GO-162 (5)
Studebaker Com. 6.....(1928)	GKA-134 (2)	GKB-137 (2)	GKC-134 (2)	GKD-133 (2)	GL-174 (4)	GM-144 (4)	GN-147 (4)	GO-161 (7)
Studebaker Dictator 6...(1928)	GKA-135 (2)	GKB-138 (2)	GKC-135 (2)	GKD-134 (2)	GL-218 (3)	GM-146 (5)	GN-149 (5)	GO-162 (5)
Studebaker President 8..(1928)	GKA-136 (2)	GKB-139 (2)	GKC-136 (2)	GKD-135 (2)	GL-178 (2)	GM-147 (2)	GN-150 (1)	GO-163 (2)
Studebaker Com. 6.....(1929)	GKA-134 (2)	GKB-137 (2)	GKC-134 (2)	GKD-133 (2)	GL-174 (4)	GM-144 (4)	GN-147 (4)	GO-161 (7)
Studebaker Com. 8 .....(1929)	GKA-137 (1)	GKB-140 (1)	GKC-137 (1)	GKD-136 (1)	GL-112 (1)	GM-148 (1)	GN-151 (1)	GO-165 (1)
Studebaker Dictator 6...(1929)	GKA-135 (2)	GKB-138 (2)	GKC-135 (2)	GKD-134 (2)	GL-218 (3)	GM-146 (5)	GN-149 (5)	GO-162 (5)
Studebaker President 8..(1929-30)	GKA-136 (2)	GKB-139 (2)	GKC-136 (2)	GKD-135 (2)	GL-178 (2)	GM-147 (2)	GN-152 (1)	GO-163 (2)
Stutz 695.....(1925)	GKA-138 (1)	GKB-141 (1)	GKC-138 (1)	GKD-137 (1)	GL-180 (1)	GM-150 (1)	GN-137 (1)	GO-166 (1)
Stutz AA.....(1926)	GKA-9 (5)	GKB-11 (5)	GKC-10 (5)	GKD-9 (5)	GL-181 (1)	GM-151 (2)	GN-12 (5)	GO-167 (2)
Stutz AA.....(1927)	GKA-9 (5)	GKB-11 (5)	GKC-10 (5)	GKD-9 (5)	GL-182 (2)	GM-151 (2)	GN-12 (5)	GO-167 (2)
Stutz BB.....(1928)	GKA-9 (5)	GKB-11 (5)	GKC-10 (5)	GKD-9 (5)	GL-182 (2)	GM-11 (2)	GN-12 (5)	GO-168 (1)
Stutz Series M.....(1929)	GKA-9 (5)	GKB-11 (5)	GKC-10 (5)	GKD-9 (5)	GL-183 (1)	GM-152 (1)	GN-12 (5)	GO-169 (1)
Velie 60.....(1925)	GKA-141 (5)	GKB-143 (5)	GKC-140 (5)	GKB-143 (5)	GL-184 (3)	GM-154 (4)	GN-155 (8)	GO-164 (4)
Velie 60.....(1926)	GKA-141 (5)	GKB-143 (5)	GKC-140 (5)	GKB-143 (5)	GL-184 (3)	GM-154 (4)	GN-155 (8)	GO-164 (4)
Velie Std. 50.....(1927-28)	GKA-4 (2)	GKB-4 (2)	GKC-4 (2)	None	GL-186 (2)	GM-154 (4)	GN-155 (8)	GO-6 (2)
Velie Special 60.....(1927-28)	GKA-141 (5)	GKB-143 (5)	GKC-140 (5)	GKB-143 (5)	GL-185 (2)	GM-54 (2)	GN-155 (8)	GO-164 (4)
Velie 6-66.....(1928)	GKA-141 (5)	GKB-143 (5)	GKC-140 (5)	GKB-143 (5)	GL-184 (3)	GM-155 (1)	GN-155 (8)	GO-153 (1)
Velie 6-77.....(1928)	GKA-141 (5)	GKB-143 (5)	GKC-140 (5)	GKB-143 (5)	GL-185 (2)	GM-156 (1)	GN-155 (8)	GO-164 (4)
Velie 88, Lyc. 4HM.....(1928)	GKA-5 (36)	GKB-5 (36)	GKC-5 (36)	GKD-5 (36)	GL-4 (31)	GM-4 (21)	GN-4 (65)	GO-10 (13)
Viking.....(1929-30)	GKA-142 (1)	GKB-144 (1)	GKC-141 (1)	GKD-140 (1)	GL-187 (1)	GM-157 (1)	GN-156 (1)	GO-170 (1)
Westcott 44, Cont. 8R...(1925)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Westcott 60, Cont. 8R...(1925)	GKA-3 (9)	GKB-3 (8)	GKC-3 (8)	GKB-3 (8)	GL-3 (12)	GM-3 (12)	GN-3 (12)	GO-3 (9)
Whippet 96, 4 Cyl.....(1927)	GKA-101 (2)	GKB-104 (2)	GKC-101 (2)	None	GL-139 (5)	GM-107 (1)	GN-111 (5)	GO-123 (3)
Whippet 93A, 6 Cyl.....(1927)	GKA-100 (3)	GKB-103 (3)	GKC-100 (3)	None	GL-138 (3)	GM-106 (3)	GN-110 (3)	GO-122 (3)
Whippet 96, 4 Cyl.....(1928)	GKA-101 (2)	GKB-104 (2)	GKC-101 (2)	None	GL-220 (6)	GM-108 (4)	GN-111 (5)	GO-123 (3)
Whippet 98, 6 Cyl.....(1928)	GKA-102 (5)	GKB-105 (6)	GKC-102 (6)	GKD-101 (6)	GL-220 (6)	GM-108 (4)	GN-111 (5)	GO-181 (5)
Whippet 96 A.....(1929-30)	GKA-103 (1)	GKB-106 (1)	GKC-103 (1)	None	GL-220 (6)	GM-108 (4)	GN-111 (5)	GO-123 (3)
Whippet 98 A.....(1929-30)	GKA-102 (6)	GKB-105 (6)	GKC-102 (6)	GKD-101 (6)	GL-220 (6)	GM-108 (4)	GN-111 (5)	GO-181 (5)
Wills Ste. Claire 6.....(1925-26)	GKA-147 (1)	GKB-149 (1)	GKC-146 (1)	GKD-145 (1)	GL-193 (3)	GM-162 (1)	GN-163 (1)	GO-178 (1)
Wills Ste. Claire 8.....(1925)	GKA-148 (2)	GKB-150 (2)	GKC-147 (2)	GKD-146 (2)	GL-193 (3)	GM-163 (2)	GN-164 (2)	GO-179 (2)
Wills Ste. Claire 8.....(1926)	GKA-148 (2)	GKB-150 (2)	GKC-147 (2)	GKD-146 (2)	GL-193 (3)	GM-163 (2)	GN-164 (2)	GO-179 (2)
Willys Knight 66.....(1925)	GKA-143 (2)	GKB-145 (2)	GKC-142 (2)	None	GL-189 (3)	GM-158 (2)	GN-157 (2)	GO-171 (2)
Willys Knight 65.....(1925)	GKA-143 (2)	GKB-145 (2)	GKC-142 (2)	None	GL-188 (1)	GM-166 (1)	GN-157 (2)	GO-171 (2)
Willys Knight 66.....(1926)	GKA-144 (3)	GKB-146 (3)	GKC-143 (3)	GKD-142 (3)	GL-189 (3)	GM-158 (2)	GN-158 (1)	GO-172 (1)
Willys Knight 70.....(1926)	GKA-102 (6)	GKB-105 (6)	GKC-102 (6)	GKD-101 (6)	GL-78 (2)	GM-60 (2)	GN-159 (3)	GO-173 (1)
Willys Knight 66 A.....(1927)	GKA-144 (3)	GKB-146 (3)	GKC-143 (3)	GKD-142 (3)	GL-189 (3)	GM-159 (2)	GN-155 (8)	GO-174 (2)
Willys Knight 70 A.....(1927)	GKA-102 (6)	GKB-105 (6)	GKC-102 (6)	GKD-101 (6)	GL-192 (6)	GM-160 (2)	GN-159 (3)	GO-175 (1)
Willys Knight Std. 6-56. (1928-29)	GKA-146 (1)	GKB-148 (1)	GKC-145 (1)	GKD-144 (1)	GL-192 (6)	GM-161 (3)	GN-162 (1)	GO-176 (1)
Willys Knight Sp. 6-70A.(1928-29)	GKA-102 (6)	GKB-105 (6)	GKC-102 (6)	GKD-101 (6)	GL-192 (6)	GM-161 (3)	GN-159 (3)	GO-177 (2)
Willys Knight 66 A.. (1928-29-30)	GKA-144 (3)	GKB-146 (3)	GKC-143 (3)	GKD-142 (3)	GL-191 (1)	GM-159 (2)	GN-161 (1)	GO-174 (2)
Willys Knight 70 B.....(1929-30)	GKA-102 (6)	GKB-105 (6)	GKC-102 (6)	GKD-101 (6)	GL-192 (6)	GM-160 (2)	GN-160 (1)	GO-177 (2)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

* Block bearing only, cap is babbitted.

† When no crankshaft center main bearing is used, as in engines with four main bearings, the CHILTON NUMBER in the third column refers to No. 2 main bearing or the second one from the front.

‡ When no crankshaft center main bearing is used, as in engines with four main bearings, the CHILTON NUMBER in the fifth column refers to No. 3 main bearing or the third one from the front.

Key of Engine Abbreviations

Ans.—Ansted. Cont., Ct.—Continental. Lyc.—Lycoming. Wisc.—Wisconsin.

Footnote: For corresponding Dall piston and Burgess-Norton pin numbers see page 203.

Digitized by Google

Engine Assembly—Section 2

Interchangeable Data on 25 Engine Parts
for Passenger Cars from 1925 to 1930

ENGINE ASSEMBLY STARTS ON PAGE 202. READ DIRECTIONS THERE CAREFULLY

For Engine Parts Sizes, See Page 314

Car Make and Model	Cylinder Head	Crankcase (Oil Pan)	Camshaft	Camshaft or Eccentric Shaft Front Bushing	Camshaft Gear or Sprocket	Crankshaft	Crankshaft Gear or Sprocket	Timing Chain (See Footnote)	Muffler
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Ajax, Nash L6.....(1926)	GB-1 (4)	GC-1 (4)	GD-1 (4)	GEA-1 (4)	GF-1 (4)	GG-1 (4)	GH-1 (3)	None	HA-1 (4)
Anderson 41 Cont. 7-U.....(1925)	GB-2 (7)	GC-2 (7)	GD-2 (7)	GEA-2 (7)	GF-2 (7)	GG-2 (6)	GH-2 (11)	GJ-1 (10)	HA-2 (1)
Anderson 50 Cont. 8-R.....(1925)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (15)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-3 (8)
Apperson 6, Velie 50.....(1925)	GB-4 (1)	GC-4 (1)	GD-4 (1)	GEA-4 (1)	GF-4 (8)	GG-4 (1)	GH-4 (2)	None	HA-4 (1)
Apperson Str. 8, Lyc. 2-H.....(1925)	GB-5 (3)	GC-5 (3)	GD-5 (3)	GEA-5 (3)	GF-4 (8)	GG-5 (3)	GH-5 (35)	GJ-2 (17)	HA-5 (1)
Auburn 4, Lyc. CF.....(1925)	GB-6 (4)	GC-6 (4)	GD-6 (4)	GEA-7 (1)	GF-6 (5)	GG-6 (4)	GH-6 (5)	None	HA-6 (2)
Auburn 6-43, Cont. 7-U.....(1925)	GB-2 (7)	GC-2 (7)	GD-2 (7)	GEA-2 (7)	GF-2 (6)	GG-2 (6)	GH-2 (11)	GJ-1 (10)	HA-7 (19
Auburn 8-88, Lyc. 2-H.....(1925)	GB-5 (3)	GC-5 (3)	GD-5 (3)	GEA-8 (12)	GF-5 (2)	GG-5 (3)	GH-5 (35)	GJ-2 (17)	HA-8 (7)
Auburn 4-44, Lyc. CF.....(1926-27)	GB-6 (4)	GC-6 (4)	GD-6 (4)	GEA-9 (4)	GF-6 (5)	GG-6 (4)	GH-6 (5)	None	HA-6 (2)
Auburn 8-88, Lyc. 4-HM.....(1926)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-3 (17)	HA-8 (7)
Auburn 6-66, Lyc. 4-SM.....(1926-27)	GB-7 (3)	GC-7 (3)	GD-7 (3)	GEA-10 (2)	GF-7 (4)	GG-7 (3)	GH-7 (4)	GJ-3 (2)	HA-9 (15)
Auburn 6-66A, Cont. 28-L.....(1927)	GB-9 (2)	GC-9 (2)	GD-9 (2)	GEA-11 (2)	GF-9 (2)	GG-9 (2)	GH-8 (5)	GJ-4 (10)	HA-10 (5)
Auburn 8-88, Lyc. 4-HM.....(1927-28)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-9 (22)	GJ-2 (17)	HA-8 (7)
Auburn 8-77, Lyc. GT.....(1927-28)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-12 (7)	GF-10 (30)	GG-10 (9)	GH-10 (9)	GJ-5 (35)	HA-8 (7)
Auburn 76, Lyc. WS.....(1928-29)	GB-11 (5)	GC-11 (9)	GD-11 (9)	GEA-13 (18)	GF-10 (30)	GG-11 (9)	GH-9 (22)	GJ-5 (35)	HA-11 (3)
Auburn 88, Lyc. GS.....(1928-29)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (19)	HA-12 (9)
Auburn 115, Lyc. 4-MD.....(1928-29)	GB-13 (1)	GC-13 (3)	GD-13 (3)	GEA-15 (6)	GF-8 (26)	GG-13 (3)	GH-5 (35)	GJ-6 (19)	HA-13 (1)
Auburn 6-80, Lyc. WR.....(1929)	GB-14 (4)	GC-11 (9)	GD-11 (9)	GEA-16 (2)	GF-10 (30)	GG-11 (9)	GH-9 (22)	GJ-5 (35)	HA-11 (3)
Auburn 8-90, Lyc. GR.....(1929)	GB-15 (2)	GC-12 (11)	GD-12 (11)	GEA-17 (2)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (35)	HA-12 (9)
Auburn 120, Lyc. MDA.....(1929)	GB-16 (2)	GC-13 (3)	GD-13 (3)	GEA-18 (2)	GF-8 (26)	GG-13 (3)	GH-5 (35)	GJ-6 (19)	HA-15 (2)
Auburn 6-85, Lyc. WR.....(1930)	GB-14 (4)	GC-11 (9)	GD-11 (9)	GEA-16 (2)	GF-10 (30)	GG-11 (9)	GH-9 (22)	GJ-5 (35)	HA-11 (3)
Auburn 8-95, Lyc. GR.....(1930)	GB-15 (2)	GC-12 (11)	GD-12 (11)	GEA-17 (2)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (35)	HA-12 (9)
Auburn 8-125, Lyc. MDA.....(1930)	GB-16 (2)	GC-13 (3)	GD-13 (3)	GEA-18 (2)	GF-8 (26)	GG-13 (3)	GH-5 (35)	GJ-6 (19)	HA-15 (2)
Blackhawk L6.....(1929)	GB-17 (1)	GC-17 (1)	GD-14 (1)	GEA-19 (1)	GF-11 (1)	GG-14 (1)	GH-12 (1)	**GJ-7 (2)	HA-17 (2)
Blackhawk L8, Cont. 16-S.....(1929)	GB-18 (1)	GC-18 (1)	GD-15 (1)	GEA-20 (1)	GF-12 (1)	GG-15 (1)	GH-13 (1)	GJ-9 (1)	HA-17 (2)
Buick Master.....(1925)	GB-19 (1)	GC-19 (1)	GD-16 (1)	GEA-21 (2)	GF-13 (3)	GG-16 (1)	GH-14 (4)	None	HA-18 (2)
Buick Std.....(1925)	GB-20 (1)	GC-20 (1)	GD-17 (1)	GEA-22 (4)	GF-14 (5)	GG-17 (1)	GH-15 (4)	None	HA-19 (1)
Buick Master.....(1926)	GB-245 (2)	GC-21 (1)	GD-18 (1)	GEA-21 (2)	GF-13 (3)	GG-18 (1)	GH-14 (4)	None	HA-18 (2)
Buick Std.....(1926)	GB-246 (2)	GC-22 (1)	GD-19 (1)	GEA-22 (4)	GF-14 (5)	GG-19 (1)	GH-15 (4)	None	HA-20 (1)
Buick 115.....(1927)	GB-21 (2)	GC-23 (2)	GD-20 (2)	GEA-22 (4)	GF-14 (5)	GG-20 (2)	GH-15 (4)	None	HA-21 (9)
Buick 120, 128.....(1927)	GB-22 (2)	GC-24 (2)	GD-21 (2)	GEA-23 (2)	GF-13 (3)	GG-21 (2)	GH-14 (4)	None	HA-22 (6)
Buick 115.....(1928)	GB-21 (2)	GC-23 (2)	GD-20 (2)	GEA-22 (4)	GF-14 (5)	GG-20 (2)	GH-15 (4)	None	HA-21 (9)
Buick 120, 128.....(1928)	GB-22 (2)	GC-24 (2)	GD-21 (2)	GEA-23 (2)	GF-14 (5)	GG-21 (2)	GH-14 (4)	None	HA-22 (6)
Buick 116.....(1929)	GB-23 (1)	GC-25 (1)	GD-22 (1)	GEA-24 (1)	GF-15 (1)	GG-22 (1)	GH-16 (1)	None	HA-23 (1)
Buick 121, 129.....(1929)	GB-25 (1)	GC-27 (1)	GD-24 (1)	GEA-25 (1)	GF-16 (1)	GG-24 (1)	GH-17 (1)	None	HA-25 (1)
Buick Series 40.....(1930)	GB-24 (1)	GC-26 (1)	GD-23 (1)	GEA-169 (1)	GF-171 (1)	GG-23 (1)	GH-177 (1)	None	HA-24 (1)
Buick Series 50-60.....(1930)	GB-26 (1)	GC-28 (1)	GD-25 (1)	GEA-170 (1)	GF-172 (1)	GG-25 (1)	GH-178 (1)	None	HA-26 (1)
Cadillac V63.....(1925)	GB-27 (1)	GC-29 (1)	GD-26 (1)	GEA-26 (1)	GF-17 (1)	GG-26 (1)	GH-18 (1)	*GJ-10 (2)	HA-27 (3)
Cadillac 314.....(1926)	GB-28 (1)	GC-30 (1)	GD-27 (2)	GEA-27 (1)	GF-18 (2)	GG-27 (2)	GH-19 (2)	GJ-12 (1)	HA-27 (3)
Cadillac 314.....(1927)	GB-29 (1)	GC-31 (1)	GD-27 (2)	GEA-28 (1)	GF-18 (2)	GG-27 (2)	GH-19 (2)	†GJ-10 (2)	HA-27 (3)
Cadillac 341-A.....(1928)	GB-30 (1)	GC-32 (2)	GD-28 (2)	GEA-29 (5)	GF-19 (5)	GG-28 (1)	GH-20 (3)	†GJ-13 (5)	HA-28 (2)
Cadillac 341-B.....(1929)	GB-31 (1)	GC-32 (2)	GD-28 (2)	GEA-29 (5)	GF-19 (5)	GG-29 (1)	GH-20 (3)	†GJ-13 (5)	HA-28 (2)
Cadillac 353.....(1930)	GB-32 (1)	GC-34 (1)	GD-29 (1)	GEA-171 (1)	GF-173 (1)	GG-30 (1)	GH-179 (1)	†GJ-13 (1)	HA-29 (1)
Case JIC, Cont. 8-R.....(1925)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (15)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-30 (1)
Case X, Cont. 8-R.....(1925)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (15)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-31 (1)
Case Y, Cont. 6-T.....(1925)	GB-33 (1)	GC-35 (1)	GD-30 (1)	GEA-3 (15)	GF-20 (1)	GG-31 (1)	GH-21 (3)	GJ-15 (2)	HA-32 (2)
Case Y, Cont. 6-J.....(1926)	GB-34 (4)	GC-36 (4)	GD-31 (2)	GEA-3 (15)	GF-3 (11)	GG-32 (4)	GH-3 (9)	GJ-15 (2)	HA-32 (2)
Case JIC, Cont. 8-R.....(1926-27)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (15)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-33 (1)
Chandler 33.....(1925)	GB-35 (1)	GC-37 (1)	GD-32 (1)	GEA-30 (1)	GF-21 (4)	GG-33 (1)	GH-22 (1)	GJ-16 (9)	HA-12 (9)
Chandler 35.....(1926)	GB-36 (1)	GC-38 (1)	GD-33 (1)	GEA-31 (1)	GF-21 (4)	GG-34 (1)	GH-23 (3)	GJ-16 (9)	HA-12 (9)
Chandler Big 6.....(1927)	GB-37 (1)	GC-39 (1)	GD-34 (1)	GEA-32 (2)	GF-21 (4)	GG-35 (1)	GH-23 (3)	GJ-16 (9)	HA-12 (9)
Chandler Royal 8.....(1927)	GB-38 (2)	GC-40 (2)	GD-35 (2)	GEA-33 (2)	GF-22 (2)	GG-36 (2)	GH-24 (2)	GJ-17 (11)	HA-12 (9)
Chandler Spec. 6.....(1927)	GB-39 (3)	GC-41 (3)	GD-36 (3)	GEA-34 (2)	GF-23 (3)	GG-37 (3)	GH-25 (3)	GJ-18 (5)	HA-36 (8)
Chandler Std. 6.....(1927)	GB-40 (3)	GC-42 (3)	GD-37 (3)	GEA-35 (2)	GF-24 (5)	GG-38 (3)	GH-26 (5)	GJ-19 (17)	HA-36 (8)
Chandler Big 6.....(1928)	GB-41 (1)	GC-43 (1)	GD-38 (1)	GEA-32 (2)	GF-21 (4)	GG-39 (1)	GH-23 (3)	GJ-16 (9)	HA-12 (9)
Chandler Royal 8.....(1928)	GB-38 (2)	GC-40 (2)	GD-35 (2)	GEA-33 (2)	GF-22 (2)	GG-36 (2)	GH-24 (2)	GJ-17 (11)	HA-12 (9)
Chandler Spec. 6.....(1928)	GB-42 (1)	GC-44 (2)	GD-39 (1)	GEA-34 (2)	GF-24 (5)	GG-40 (1)	GH-26 (5)	GJ-18 (5)	HA-36 (8)
Chandler Spec. Inv. 6.....(1928)	GB-245 (2)	GC-44 (2)	GD-40 (1)	GEA-35 (2)	GF-24 (5)	GG-41 (1)	GH-26 (5)	GJ-18 (5)	HA-36 (8)
Chevrolet K.....(1925)	GB-43 (2)	GC-45 (2)	GD-41 (2)	None	GF-25 (2)	GG-42 (4)	GH-28 (3)	None	HA-37 (3)
Chevrolet V.....(1926)	GB-43 (2)	GC-45 (2)	GD-41 (2)	None	GF-25 (2)	GG-42 (4)	GH-28 (3)	None	HA-37 (3)
Chevrolet AA.....(1927)	GB-44 (1)	GC-46 (2)	GD-42 (1)	None	GF-26 (1)	GG-42 (4)	GH-28 (3)	None	HA-37 (3)
Chevrolet AB.....(1928)	GB-45 (1)	GC-46 (2)	GD-43 (1)	None	GF-27 (1)	GG-42 (4)	GH-27 (1)	None	HA-38 (1)
Chevrolet AC.....(1929)	GB-46 (1)	GC-48 (1)	GD-44 (1)	None	GF-28 (1)	GG-43 (1)	GH-1 (3)	None	HA-39 (1)
Chrysler 6-B.....(1925)	GB-47 (1)	GC-49 (1)	GD-45 (1)	GEA-36 (12)	GF-29 (1)	GG-44 (1)	GH-30 (3)	GJ-19 (17)	HA-40 (1)
Chrysler 58.....(1926)	GB-48 (2)	GC-50 (2)	GD-46 (2)	GEA-37 (3)	GF-30 (5)	GG-45 (2)	GH-31 (2)	None	HA-41 (6)
Chrysler 70.....(1926)	GB-49 (2)	GC-51 (2)	GD-47 (4)	GEA-36 (12)	GF-31 (4)	GG-46 (2)	GH-32 (4)	GJ-19 (17)	HA-42 (3)
Chrysler 80.....(1926)	GB-50 (2)	GC-52 (4)	GD-48 (4)	GEA-36 (12)	GF-32 (4)	GG-47 (2)	GH-33 (4)	GJ-20 (4)	HA-43 (3)
Chrysler 50.....(1927)	GB-51 (2)	GC-53 (2)	GD-49 (2)	GEA-37 (3)	GF-30 (5)	GG-48 (2)	GH-34 (3)	None	HA-44 (1)
Chrysler 60.....(1927)	GB-52 (2)	GC-54 (3)	GD-50 (3)	GEA-36 (12)	GF-33 (2)	GG-49 (2)	GH-30 (3)	GJ-21 (1)	HA-45 (2)
Chrysler 70.....(1927)	GB-49 (2)	GC-51 (2)	GD-47 (4)	GEA-36 (12)	GF-31 (4)	GG-46 (2)	GH-32 (4)	GJ-19 (17)	HA-42 (2)
Chrysler 80.....(1927)	GB-50 (2)	GC-52 (4)	GD-48 (4)	GEA-36 (12)	GF-32 (4)	GG-47 (2)	GH-33 (4)	GJ-20 (4)	HA-46 (1)

FOOTNOTE: *For corresponding Whitney chain numbers see page 211.*

Digitized by Google

WHITNEY

SILENT TIMING CHAINS

are satisfactorily quiet and smooth in operation, and dependable in performance, with large bearing area in the joint construction

which insures long life. There is a WHITNEY Chain for every American car originally chain equipped.

CONVERSION TABLE

Giving Whitney Number corresponding to each Chilton Multi-Guide Number in the TIMING CHAIN column of the accompanying Interchangeable Table.

Order by WHITNEY Number **Accurately Made to Correct Specifications.**

Chilton Multi-Guide Number	WHITNEY Number	Chilton Multi-Guide Number	WHITNEY Number	Chilton Multi-Guide Number	WHITNEY Number	Chilton Multi-Guide Number	WHITNEY Number	Chilton Multi-Guide Number	WHITNEY Number
GJ-1	M205-67	GJ-18	M205-61	GJ-37	T105-91	GJ-54	CM205-52	GJ-72	CM204-54
GJ-2	BL106-100	GJ-19[2]	SM205-59[2]	GJ-38[6]	BU106-110[6]	GJ-56	CM206-50	GJ-73	CM205-55
GJ-3	T106-89	GJ-20	M006-78	GJ-39[7]	BK106-110[7]	GJ-57	N104-85	GJ-76	M206-71
GJ-4	M005-81	GJ-21	M005-74	GJ-40	BL106-108	GJ-58	R104-2-85	GJ-77	BT-105-90
GJ-5	V205-49	GJ-23	M005-82	GJ-41	M206-72	GJ-59	BU106-106	GJ-78	BL-106-110
GJ-6	M006-85	GJ-24	M205-63	GJ-42	M205-75	GJ-60	C106-84	GJ-79	N105-84
GJ-7	BF105-90	GJ-25	CM205-48	GJ-43	C106-96	GJ-61	BL106-96	GJ-82	BH106-112
GJ-8	BH106-128	GJ-26	C105-76	GJ-44	C105-82	GJ-62	BH106-96	GJ-83	BL106-128
GJ-9	M005-76	GJ-27[3]	SM206-63[3]	GJ-45	T105-89	GJ-63	BH106-102	GJ-84	E105-91
GJ-10	CM207-56	GJ-29	BL106-112	GJ-46	M206-67	GJ-64	CM-205-44	GJ-85	SM206-65
GJ-11	CM206-57	GJ-30	BK106-107	GJ-47	M005-70	GJ-65	M005-71	GJ-86	C104-85
GJ-12	C107-88	GJ-31[5]	M005-80[5]	GJ-48	M005-75	GJ-66	M206-70	GJ-87	BC103-66
GJ-13	CM207-54	GJ-32	CM205-49	GJ-49	BU106-84	GJ-67	T106-94	GJ-88	C105-85
GJ-14[1]	CM205-57[1]	GJ-33	N104-2-64	GJ-50	BU106-102	GJ-68	C106-95	GJ-89	CM205-46
GJ-15	M206-66	GJ-34	BT105-98	GJ-51	BE107-112	GJ-69	CM206-52	GJ-90	K205-48
GJ-16	SM206-77	GJ-35	BF105-98	GJ-52	BC103-62	GJ-70	CM204-56	GJ-91	N103-21
GJ-17	M206-64	GJ-36	M206-73	GJ-53	BC103-64	GJ-71	CM205-54	GJ-95	CM206-48

[1] For DODGE 4, 1927-8, Standard 1928, Victory 1928-9; ESSEX 1925-9 and HUDSON 8, 1930 order WHITNEY No. SM205-57.
For FRANKLIN 1925-6-7 and OLDSMOBILE 1928-9 order WHITNEY No. M205-57.

[2] For CLEVELAND 21, 1925-6; FRANKLIN 12A, 1928; FRANKLIN 130, 135, 137, 1929; FRANKLIN 145, 147, 1930 order WHITNEY No. M205-59.

[3] For PACKARD 6 & 8, 1925-6-7 and PEERLESS 70, 1925 order WHITNEY No. M206-63.

[5] For DURANT 60, 1929 and 63, 1930 order WHITNEY No. M005-81.

[6] For GRAHAM-PAIGE 615 (Early) order WHITNEY No. T105-91, for GRAHAM-PAIGE 615 (Late) order WHITNEY No. E105-91.

[7] For GRAHAM-PAIGE 621 (Early) order WHITNEY No. BU106-110.

MOTOR AND EQUIPMENT M·E·A ASSOCIATION DIVISION A

THE WHITNEY MFG. CO.

Hartford, Conn.

NSPA

JOBBERS IN ALL PRINCIPAL DISTRIBUTING CENTERS

Warehouse Stocks in

Atlanta, Ga. Chicago, Ill. Dallas, Texas Los Angeles, Cal. New York City Seattle, Wash. San Francisco, Cal.

Digitized by Google

ENGINE ASSEMBLY, Section 2—Continued

Car Make and Model	Cylinder Head	Crankcase (Oil Pan)	Camshaft	Camshaft or Eccentric Shaft Front Bushing	Camshaft Gear or Sprocket	Crankshaft	Crankshaft Gear or Sprocket	Timing Chain (See Footnote)	Muffler
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Chrysler 52.....(1928)	GB-51 (2)	GC-53 (2)	GD-49 (2)	GEA-38 (2)	GF-30 (5)	GG-48 (2)	GH-34 (3)	None	HA-47 (4)
Chrysler 62.....(1928)	GB-52 (2)	GC-54 (3)	GD-50 (3)	GEA-36 (12)	GF-33 (2)	GG-49 (2)	GH-30 (3)	GJ-21 (1)	HA-45 (2)
Chrysler 72.....(1928)	GB-53 (1)	GC-58 (1)	GD-47 (4)	GEA-36 (12)	GF-31 (4)	GG-50 (2)	GH-32 (4)	GJ-19 (17)	HA-48 (2)
Chrysler Imp. 80.....(1928)	GB-54 (2)	GC-52 (4)	GD-48 (4)	GEA-36 (12)	GF-32 (4)	GG-51 (2)	GH-33 (4)	GJ-20 (4)	HA-49 (2)
Chrysler 65.....(1929)	GB-55 (1)	GC-54 (3)	GD-50 (3)	GEA-36 (12)	GF-34 (3)	GG-52 (1)	GH-36 (2)	GJ-32 (33)	HA-50 (1)
Chrysler 75.....(1929)	GB-57 (1)	GC-62 (1)	GD-47 (4)	GEA-36 (12)	GF-31 (4)	GG-50 (2)	GH-32 (4)	GJ-19 (17)	HA-48 (2)
Chrysler Imp. 80.....(1929)	GB-54 (2)	GC-52 (4)	GD-48 (4)	GEA-36 (12)	GF-32 (4)	GG-51 (2)	GH-33 (4)	GJ-20 (4)	HA-49 (2)
Chrysler 66.....(1930)	GB-56 (1)	GC-61 (1)	GD-51 (1)	GEA-185 (2)	GF-34 (3)	GG-53 (1)	GH-181 (1)	GJ-32 (33)	HA-51 (1)
Chrysler 70.....(1930)	GB-58 (1)	GC-63 (1)	GD-52 (1)	GEA-185 (2)	GF-34 (3)	GG-54 (1)	GH-182 (1)	GJ-32 (2)	HA-52 (1)
Chrysler 77.....(1930)	GB-59 (1)	GC-65 (1)	GD-53 (1)	GEA-66 (1)	GF-190 (1)	GG-55 (1)	GH-183 (1)	GJ-95 (2)	HA-53 (1)
Cleveland 43.....(1925)	GB-39 (3)	GC-41 (3)	GD-36 (3)	GEA-34 (4)	GF-23 (3)	GG-37 (3)	GH-25 (3)	GJ-18 (5)	HA-36 (8)
Cleveland 31.....(1925)	GB-40 (3)	GC-42 (3)	GD-37 (3)	GEA-35 (4)	GF-24 (5)	GG-38 (3)	GH-26 (5)	GJ-19 (17)	HA-36 (8)
Cleveland 43.....(1926)	GB-39 (3)	GC-41 (3)	GD-36 (3)	GEA-34 (4)	GF-23 (3)	GG-37 (3)	GH-25 (3)	GJ-18 (5)	HA-36 (8)
Cleveland 31.....(1926)	GB-40 (3)	GC-42 (3)	GD-37 (3)	GEA-35 (4)	GF-24 (5)	GG-38 (3)	GH-26 (5)	GJ-19 (17)	HA-36 (8)
Cole Master.....(1925)	GB-60 (1)	GC-66 (1)	GD-54 (1)	GEA-39 (1)	GF-35 (1)	GG-56 (1)	GH-37 (1)	None	HA-54 (1)
Cord Lyc. FDA.....(1930)	GB-61 (1)	GC-67 (1)	GD230 (1)	GEA-172 (1)	GF-174 (0)	GG-57 (1)	GH-184 (1)	GJ-2 (1)	HA-55 (1)
Davis 90, Cont. 7-U.....(1925-26)	GB-2 (7)	GC-2 (7)	GD-2 (7)	GEA-2 (7)	GF-2 (6)	GG-2 (6)	GH-2 (11)	GJ-1 (10)	HA-60 (2)
Davis 91, Cont. 8-R.....(1925-26)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (15)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-60 (2)
Davis 92, Cont. 11-U.....(1926)	GB-66 (2)	GC-72 (2)	GD-59 (2)	GEA-43 (9)	GF-38 (2)	GG-62 (2)	GH-40 (2)	GJ-23 (9)	HA-61 (5)
Davis 93, Cont. 20-L.....(1926)	GB-67 (1)	GC-73 (1)	GD-60 (1)	GEA-44 (1)	GF-39 (1)	GG-63 (1)	GH-41 (4)	GJ-4 (10)	HA-61 (5)
Davis 92, Cont. 11-U.....(1927)	GB-66 (2)	GC-72 (2)	GD-59 (2)	GEA-43 (9)	GF-38 (2)	GG-62 (2)	GH-40 (2)	GJ-23 (9)	HA-61 (5)
Davis 94, Cont. 28-L.....(1927)	GB-9 (2)	GC-9 (2)	GD-9 (2)	GEA-11 (2)	GF-9 (2)	GG-9 (2)	GH-8 (5)	GJ-4 (10)	HA-61 (5)
Davis 98, Cont. 8-S.....(1927)	GB-68 (5)	GC-74 (5)	GD-61 (5)	GEA-46 (2)	GF-40 (11)	GG-64 (1)	GH-43 (8)	GJ-24 (18)	HA-62 (1)
Davis 99, Cont. 14-S.....(1928)	GB-69 (5)	GC-75 (5)	GD-62 (3)	GEA-47 (3)	GF-40 (11)	GG-65 (1)	GH-44 (1)	GJ-24 (18)	HA-63 (1)
De Soto.....(1929-30)	GB-70 (1)	GC-76 (1)	GD-63 (1)	GEA-48 (1)	GF-41 (1)	GG-66 (1)	GH-36 (2)	GJ-25 (2)	HA-64 (2)
De Soto, 8 Cyl.....(1930)	GB-246 (2)	GC-254 (1)	GD-216 (1)	GEA-173 (1)	GF-175 (1)	GG-234 (1)	GH-185 (1)	GJ-25 (1)	HA-229 (1)
Diana Str. 8, Cont. 12-Z.....(1926)	GB-71 (3)	GC-77 (3)	GD-64 (3)	GEA-43 (9)	GF-42 (3)	GG-67 (3)	GH-46 (3)	GJ-26 (3)	HA-65 (3)
Diana Str. 8, Cont. 12-Z.....(1927)	GR-71 (3)	GC-77 (3)	GD-64 (3)	GEA-43 (9)	GF-42 (3)	GG-67 (3)	GH-46 (3)	GJ-26 (3)	HA-65 (3)
Diana Str. 8. Cont. 12-Z.....(1928)	GB-71 (3)	GC-77 (3)	GD-64 (3)	GEA-43 (9)	GF-42 (3)	GG-67 (3)	GH-46 (3)	GJ-26 (3)	HA-65 (3)
Dodge Brothers 4.....(1925)	GB-72 (2)	GC-78 (2)	GD-65 (2)	None	GF-43 (3)	GG-68 (2)	GH-47 (1)	None	HA-66 (3)
Dodge Brothers 4.....(1926)	GB-72 (2)	GC-78 (2)	GD-65 (2)	None	GF-43 (3)	GG-68 (2)	GH-48 (2)	None	HA-66 (3)
Dodge Brothers 4.....(1927-28)	GB-73 (1)	GC-79 (1)	GD-66 (1)	None	GF-43 (3)	GG-69 (1)	GH-48 (2)	GJ-14 (13)	HA-66 (3)
Dodge Brothers Senior.....(1928)	GB-74 (2)	GC-80 (2)	GD-67 (2)	GEA-49 (2)	GF-44 (2)	GG-70 (2)	GH-49 (2)	GJ-27 (18)	HA-7 (19)
Dodge Std. 6.....(1928)	GB-75 (2)	GC-81 (2)	GD-68 (2)	GEA-50 (3)	GF-45 (2)	GG-71 (2)	GH-50 (2)	GJ-14 (13)	HA-67 (2)
Dodge Brothers Vic. 6.....(1928-29)	GB-75 (2)	GC-81 (2)	GD-68 (2)	GEA-50 (3)	GF-45 (2)	GG-71 (2)	GH-50 (2)	GJ-14 (13)	HA-67 (2)
Dodge Brothers Senior.....(1929-30)	GB-74 (2)	GC-80 (2)	GD-67 (2)	GEA-49 (2)	GF-44 (2)	GG-70 (2)	GH-49 (2)	GJ-27 (18)	HA-7 (19)
Dodge Brothers DA-6.....(1929-30)	GB-76 (1)	GC-83 (1)	GD-69 (1)	GEA-50 (3)	GF-46 (1)	GG-72 (1)	GH-51 (1)	GJ-25 (2)	HA-7 (19)
Dodge Brothers DD.....(1930)	GB-247 (1)	GC-255 (1)	GD-217 (1)	GEA-174 (2)	GF-176 (1)	GG-235 (1)	GH-186 (1)	GJ-25	HA-230 (1)
Dodge Brothers 8 Cyl.....(1930)	GB-248 (1)	GC-256 (1)	GD-218 (1)	GEA-174 (2)	GF-177 (1)	GG-236 (1)	GH-187 (1)	GJ-25	HA-231 (1)
du Pont D, Wisc. Y.....(1925)	GB-80 (5)	GC-88 (5)	GD-73 (4)	GEA-54 (4)	GF-50 (5)	GG-76 (5)	GH-54 (5)	GJ-29 (10)	HA-9 (15)
du Pont D, Wisc. Y.....(1926)	GB-80 (5)	GC-88 (5)	GD-73 (4)	GEA-54 (4)	GF-50 (5)	GG-76 (5)	GH-54 (5)	GJ-29 (10)	HA-9 (15)
du Pont E, Wisc. Y.....(1927)	GB-80 (5)	GC-88 (5)	GD-73 (4)	GEA-54 (4)	GF-50 (5)	GG-76 (5)	GH-54 (5)	GJ-29 (10)	HA-9 (15)
du Pont E, F, Wisc. Y.....(1928)	GB-80 (5)	GC-88 (5)	GD-73 (4)	GEA-54 (4)	GF-50 (5)	GG-76 (5)	GH-54 (5)	GJ-29 (10)	HA-9 (15)
du Pont E, Wisc. Y.....(1929)	GB-80 (5)	GC-88 (5)	GD-73 (1)	GEA-55 (6)	GF-50 (5)	GG-76 (5)	GH-54 (5)	GJ-29 (5)	HA-9 (15)
du Pont G, Cont. 12-K.....(1929)	GB-81 (6)	GC-89 (6)	GD-74 (6)	GEA-55 (6)	GF-51 (6)	GG-77 (6)	GH-35 (6)	GJ-30 (6)	HA-70 (1)
Durant A22, Cont. Spec.....(1925)	GB-82 (1)	GC-90 (1)	GD-75 (1)	GEA-56 (1)	GF-52 (1)	GG-78 (1)	GH-55 (1)	None	HA-71 (1)
Durant D55, Cont. 14-L.....(1928)	GB-83 (5)	GC-91 (6)	GD-76 (7)	GEA-45 (5)	GF-53 (7)	GG-79 (5)	GH-56 (7)	GJ-4 (10)	HA-72 (3)
Durant D65, Cont. 15-L.....(1928)	GB-85 (2)	GC-91 (6)	GD-76 (7)	GEA-58 (2)	GF-53 (7)	GG-81 (2)	GH-56 (7)	GJ-31 (6)	HA-73 (2)
Durant M2, Cont. W5.....(1928-29)	GB-84 (5)	GC-92 (4)	GD-77 (5)	GEA-57 (5)	GF-54 (5)	GG-80 (5)	GH-57 (5)	GJ-24 (18)	HA-72 (3)
Durant 75, Cont. 15-U.....(1928-29)	GB-86 (2)	GC-93 (1)	GD-78 (2)	GEA-59 (2)	GF-55 (2)	GG-82 (2)	GH-59 (2)	GJ-23 (9)	HA-74 (2)
Durant 4-40, Cont. W-5.....(1929-30)	GB-84 (5)	GC-92 (4)	GD-77 (5)	GEA-57 (5)	GF-54 (5)	GG-80 (5)	GH-57 (5)	GJ-24 (18)	HA-72 (3)
Durant 6-60, Cont. 14-L.....(1929-30)	GB-83 (5)	GC-91 (6)	GD-76 (7)	GEA-45 (5)	GF-53 (7)	GG-79 (5)	GH-56 (7)	GJ-31 (6)	HA-73 (2)
Durant 66, Cont. 15-L.....(1929-30)	GB-85 (2)	GC-91 (6)	GD-76 (7)	GEA-58 (2)	GF-53 (7)	GG-81 (2)	GH-56 (7)	GJ-31 (6)	HA-75 (1)
Durant 70, Cont. 20-E .....(1929 30)	GB-86 (2)	GC-95 (1)	GD-78 (2)	GEA-59 (2)	GF-55 (2)	GG-82 (2)	GH-59 (2)	GJ-23 (1)	HA-74 (2)
Durant 63, Cont. 14-L.....(1930)	GB-83 (5)	GC-94 (1)	GD-76 (7)	GEA-45 (5)	GF-53 (7)	GG-79 (5)	GH-56 (7)	GJ-31 (7)	HA-240 (1)
Elcar 4-40, Lyc. CF.....(1925)	GB-6 (4)	GC-6 (4)	GD-6 (4)	GEA-9 (4)	GF-6 (5)	GG-6 (4)	GH-6 (5)	None	HA-76 (1)
Elcar 6-50, Cont. 7-U.....(1925)	GB-2 (7)	GC-2 (7)	GD-2 (7)	GEA-2 (7)	GF-2 (7)	GG-2 (6)	GH-2 (11)	GJ-1 (10)	HA-21 (9)
Elcar 6-60, Cont. 8-R.....(1925)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (15)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-77 (1)
Elcar 8-80, Lyc. H.....(1925)	GB-87 (2)	GC-96 (2)	GD-79 (2)	GEA-14 (2)	GF-56 (2)	GG-83 (2)	GH-5 (35)	GJ-2 (17)	HA-9 (15)
Elcar 6-65, Lyc. 4-SM.....(1926)	GB-7 (3)	GC-7 (3)	GD-7 (3)	GEA-10 (2)	GF-7 (4)	GG-7 (3)	GH-7 (4)	GJ-3 (2)	HA-79 (1)
Elcar 8-81, Lyc. 4-H.....(1926)	GB-88 (4)	GC-97 (4)	GD-8 (15)	GEA-60 (4)	GF-57 (1)	GG-84 (1)	GH-5 (35)	GJ-2 (17)	HA-9 (15)
Elcar 4-55, Lyc. CF.....(1926-27)	GB-6 (4)	GC-6 (4)	GD-6 (4)	GEA-9 (4)	GF-6 (5)	GG-6 (4)	GH-6 (5)	None	HA-78 (1)
Elcar 6-70, Lyc. WT.....(1927)	GB-89 (1)	GC-98 (1)	GD-80 (1)	GEA-61 (2)	GF-10 (30)	GG-85 (1)	GH-10 (9)	GJ-5 (33)	HA-80 (6)
Elcar 8-82, Lyc. GT.....(1927)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-13 (18)	GF-10 (30)	GG-10 (9)	GH-9 (22)	GJ-5 (17)	HA-81 (2)
Elcar 8-90, Lyc. 4-HM.....(1927)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-6 (19)	HA-82 (2)
Elcar 8-91, Lyc. 4-HM.....(1928)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-6 (19)	HA-82 (2)
Elcar 120, Lyc. MD.....(1928)	GB-90 (7)	GC-99 (7)	GD-81 (7)	GEA-13 (18)	GF-8 (26)	GG-86 (7)	GH-5 (35)	GJ-6 (19)	HA-84 (2)
Elcar 6-70, Lyc. WS.....(1928-29)	GB-11 (5)	GC-11 (9)	GD-11 (9)	GEA-61 (2)	GF-10 (30)	GG-11 (9)	GH-9 (22)	GJ-5 (33)	HA-80 (6)
Elcar 8-78, Lyc. GT.....(1928-29)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-13 (18)	GF-10 (30)	GG-10 (9)	GH-10 (9)	GJ-5 (33)	HA-83 (1)
Elcar 8-82, Lyc. GS.....(1928-29)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-81 (2)
Elcar 120, Lyc. MD.....(1929)	GB-90 (7)	GC-99 (7)	GD-81 (7)	GEA-62 (1)	GF-8 (26)	GG-86 (7)	GH-5 (35)	GJ-6 (19)	HA-84 (2)
Elcar 75, Lyc. WS.....(1929-30)	GB-11 (5)	GC-11 (9)	GD-11 (9)	GEA-13 (18)	GF-10 (30)	GG-11 (9)	GH-9 (22)	GJ-5 (33)	HA-7 (19)
Elcar 95, 96, Lyc. GS.....(1929-30)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-85 (1)
Elcar 130, Cont. 12-K.....(1930)	GB-81 (6)	GC-89 (6)	GD-74 (6)	GEA-55 (6)	GF-51 (6)	GG-77 (6)	GH-35 (6)	GJ-30 (6)	HA-239 (1)
Erskine 50, Cont. 8-F.....(1927)	GB-91 (1)	GC-100 (2)	GD-82 (3)	GEA-63 (3)	GF-58 (3)	GG-87 (3)	GH-63 (1)	GJ-31 (6)	HA-86 (6)
Erskine 6-51, Cont. 9-F.....(1928)	GB-92 (2)	GC-100 (2)	GD-82 (3)	GEA-63 (3)	GF-58 (3)	GG-87 (3)	GH-62 (2)	GJ-31 (6)	HA-86 (6)
Erskine 6-52, Cont. 9-F.....(1929-30)	GB-92 (2)	GC-101 (1)	GD-82 (3)	GEA-63 (3)	GF-58 (3)	GG-87 (3)	GH-62 (2)	GJ-31 (6)	HA-86 (6)
Erskine 53.....(1930)	GB-249 (1)	GC-257 (0)	GD-219 (1)	GEA-175 (1)	GF-178 (1)	GG-237 (1)	GH-188 (2)	GJ-76 (1)	HA-232 (1)
Essex 6.....(1925)	GB-93 (2)	GC-102 (2)	GD-83 (4)	GEA-64 (5)	GF-59 (5)	GG-88 (3)	GH-64 (4)	GJ-14 (13)	HA-87 (4)
Essex 6.....(1926)	GB-93 (2)	GC-102 (2)	GD-83 (4)	GEA-64 (5)	GF-59 (5)	GG-88 (3)	GH-64 (4)	GJ-14 (13)	HA-87 (4)
Essex Super 6.....(1927)	GB-94 (2)	GC-103 (2)	GD-83 (4)	GEA-64 (5)	GF-59 (5)	GG-88 (3)	GH-64 (4)	GJ-14 (13)	HA-87 (4)
Essex Super 6.....(1928)	GB-94 (2)	GC-103 (2)	GD-83 (4)	GEA-64 (5)	GF-59 (5)	GG-89 (1)	GH-64 (4)	GJ-14 (13)	HA-87 (4)
Essex Challenger.....(1929-30)	GB-95 (1)	GC-104 (1)	GD-84 (1)	GEA-64 (5)	GF-59 (5)	GG-90 (1)	GH-65 (1)	GJ-14 (13)	HA-88 (1)
Falcon Knight 10.....(1927)	GB-96 (1)	GC-105 (1)	None	GEA-65 (3)	GF-60 (1)	GG-91 (1)	GH-66 (3)	GJ-34 (4)	HA-89 (1)
Falcon Knight 12.....(1928)	GB-97 (2)	GC-106 (2)	None	GEA-65 (3)	GF-61 (2)	GG-92 (2)	GH-66 (3)	GJ-35 (3)	HA-90 (3)
Falcon Knight 12.....(1929)	GB-97 (2)	GC-106 (2)	None	GEA-65 (3)	GF-61 (2)	GG-92 (2)	GH-66 (3)	GJ-35 (3)	HA-90 (3)
Flint E55, Cont. 6-E.....(1925)	GB-99 (3)	GC-108 (3)	GD-86 (3)	GEA-67 (1)	GF-63 (3)	GG-94 (3)	GH-67 (3)	GJ-36 (3)	HA-92 (1)
Flint B40, Cont. 6-W.....(1925-26)	GB-2 (7)	GC-2 (7)	GD-2 (7)	GEA-2 (7)	GF-2 (7)	GG-2 (7)	GH-2 (11)	GJ-24 (10)	HA-91 (1)
Flint 60, Cont.....(1926)	GB-98 (2)	GC-107 (2)	GD-85 (2)	GEA-68 (2)	GF-62 (2)	GG-93 (2)	GH-68 (6)	GJ-23 (9)	HA-9 (15)
Flint 80, Cont. 6-E.....(1926)	GB-99 (3)	GC-108 (3)	GD-86 (3)	GEA-69 (2)	GF-63 (3)	GG-94 (3)	GH-67 (3)	GJ-36 (3)	HA-93 (2)
Flint Jr., Cont. 9-L.....(1926)	GB-100 (2)	GC-109 (2)	GD-87 (2)	GEA-70 (2)	GF-64 (2)	GG-95 (2)	GH-41 (4)	GJ-4 (10)	HA-94 (2)
Flint Jr., Cont. 9-L.....(1927)	GB-100 (2)	GC-109 (2)	GD-87 (2)	GEA-70 (2)	GF-64 (2)	GG-95 (2)	GH-41 (4)	GJ-4 (10)	HA-94 (2)
Flint 60, Cont. 14-U.....(1927-28)	GB-98 (2)	GC-107 (2)	GD-85 (2)	GEA-68 (2)	GF-62 (2)	GG-93 (2)	GH-68 (6)	GJ-23 (9)	HA-9 (15)
Flint 80, Cont. 6-E.....(1927-28)	GB-99 (3)	GC-108 (3)	GD-86 (3)	GEA-69 (2)	GF-63 (3)	GG-94 (3)	GH-67 (3)	GJ-36 (3)	HA-93 (2)
Ford T.....(1925)	GB-101 (3)	GC-110 (3)	GD-88 (3)	GEA-71 (3)	GF-65 (3)	GG-96 (3)	GH-69 (3)	None	HA-95 (3)
Ford T.....(1926)	GB-101 (3)	GC-110 (3)	GD-88 (3)	GEA-71 (3)	GF-65 (3)	GG-96 (3)	GH-69 (3)	None	HA-95 (3)
Ford T.....(1927)	GB-101 (3)	GC-110 (3)	GD-88 (3)	GEA-71 (3)	GF-65 (3)	GG-96 (3)	GH-69 (3)	None	HA-95 (3)
Ford A.....(1928)	GB-102 (2)	GC-111 (2)	GD-89 (2)	None	GF-66 (2)	GG-97 (2)	GH-70 (2)	None	HA-96 (2)
Ford A.....(1929)	GB-102 (2)	GC-111 (2)	GD-89 (2)	None	GF-66 (2)	GG-97 (2)	GH-70 (2)	None	HA-96 (2)
Franklin 11.....(1925)	§ None	GC-112 (3)	GD-90 (2)	GEA-72 (4)	GF-67 (6)	GG-98 (2)	GH-71 (6)	GJ-14 (13)	HA-97 (1)
Franklin 11.....(1926)	§ None	GC-112 (3)	GD-90 (2)	GEA-72 (4)	GF-67 (6)	GG-98 (2)	GH-71 (6)	GJ-14 (13)	HA-98 (1)
Franklin 11-B.....(1927)	§ None	GC-112 (3)	GD-91 (1)	GEA-72 (4)	GF-67 (6)	GG-99 (1)	GH-71 (6)	GJ-14 (13)	HA-99 (1)
Franklin Ser. 12 A & B.....(1928)	§ None	GC-113 (1)	GD-92 (1)	GEA-72 (4)	GF-67 (6)	GG-100 (3)	GH-71 (6)	GJ-19 (17)	HA-100 (1)
Franklin 130.....(1929)	§ None	GC-114 (2)	GD-93 (2)	GEA-73 (2)	GF-67 (6)	GG-100 (3)	GH-71 (6)	GJ-19 (17)	HA-101 (2)
Franklin 135, 137 .....(1929)	§ None	GC-114 (2)	GD-93 (2)	GEA-73 (2)	GF-67 (6)	GG-100 (3)	GH-71 (6)	GJ-19 (17)	HA-101 (2)
Franklin 145, 147 .....(1930)	§ None	GC-258 (1)	GD-220 (1)	GEA-176 (1)	GF-179 (1)	GG-238 (1)	GH-189 (1)	GJ-19 (1)	HA-233 (1)

FOOTNOTE: *For corresponding Whitney chain numbers see page 211.*

Digitized by Google

ENGINE ASSEMBLY, Section 2—Continued

Car Make and Model	Cylinder Head	Crankcase (Oil Pan)	Camshaft	Camshaft or Eccentric Shaft Front Bushing	Camshaft Gear or Sprocket	Crankshaft	Crankshaft Gear or Sprocket	Timing Chain (See Footnote)	Muffler
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Gardner 6-A, Lyc. 4S.....(1925)	GB-103 (1)	GC-115 (1)	GD-94 (1)	GEA-74 (1)	GF-7 (4)	GG-101 (1)	GH-7 (4)	GJ-34 (4)	HA-102 (1)
Gardner 8-A, Lyc. 2-H.....(1925)	GB-5 (3)	GC-5 (3)	GD-5 (3)	GEA-5 (3)	GF-5 (2)	GG-5 (3)	GH-5 (35)	GJ-2 (4)	HA-103 (2)
Gardner Series 5, Lyc. CE.....(1925)	GB-104 (1)	GC-116 (1)	GD-95 (1)	GEA-9 (4)	GF-6 (5)	GG-102 (1)	GH-6 (5)	None	HA-104 (1)
Gardner 6-B, Lyc. 4-SM.....(1926-27)	GB-7 (3)	GC-7 (3)	GD-7 (3)	GEA-75 (1)	GF-7 (4)	GG-7 (3)	GH-7 (4)	GJ-3 (2)	HA-105 (1)
Gardner 8-B, Lyc. 4-HM.....(1926-27)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-5 (3)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-3 (17)	HA-103 (2)
Gardner 80, Lyc. GT.....(1927)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-12 (7)	GF-10 (30)	GG-10 (9)	GH-10 (9)	GJ-5 (33)	HA-106 (1)
Gardner 90, Lyc. 4-HM.....(1927)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-6 (19)	HA-107 (2)
Gardner 75, Lyc. GT.....(1928)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-12 (7)	GF-10 (30)	GG-10 (9)	GH-10 (9)	GJ-5 (33)	HA-108 (1)
Gardner 85, Lyc. GS.....(1928)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-109 (3)
Gardner 95, Lyc. MD.....(1928)	GB-90 (7)	GC-99 (7)	GD-81 (7)	GEA-15 (6)	GF-8 (26)	GG-86 (7)	GH-5 (35)	GJ-6 (19)	HA-110 (1)
Gardner 120, Lyc. GT.....(1929)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-12 (7)	GF-10 (30)	GG-10 (9)	GH-10 (9)	GJ-5 (19)	HA-109 (3)
Gardner 125, Lyc. GS.....(1929)	GB-12 (7)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-109 (3)
Gardner 130, Lyc. MD.....(1929)	GB-90 (7)	GC-99 (7)	GD-81 (7)	GEA-15 (6)	GF-8 (26)	GG-86 (7)	GH-5 (35)	GJ-6 (19)	HA-107 (2)
Gardner 136, Lyc. WR.....(1930)	GB-14 (4)	GC-11 (9)	GD-11 (9)	GEA-13 (18)	GF-10 (30)	GG-11 (9)	GH-190 (1)	GJ-5 (33)	HA-240 (0)
Gardner 140, Lyc. GS.....(1930)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-111 (1)
Gardner 150, Lyc. MDG.....(1930)	GB-90 (7)	GC-99 (7)	GD-81 (7)	GEA-15 (6)	GF-8 (26)	GG-86 (7)	GH-191 (1)	GJ-6 (19)	HA-112 (1)
Graham Paige 610.....(1928-29)	GB-105 (1)	GC-117 (4)	GD-96 (2)	GEA-76 (4)	GF-68 (4)	GG-103 (2)	GH-74 (4)	GJ-37 (3)	HA-113 (2)
Graham Paige 614.....(1928-29)	GB-106 (1)	GC-117 (4)	GD-96 (2)	GEA-76 (4)	GF-68 (4)	GG-103 (2)	GH-74 (4)	GJ-37 (3)	HA-114 (2)
Graham Paige 619.....(1928-29)	GB-107 (3)	GC-118 (3)	GD-97 (3)	GEA-77 (3)	GF-69 (2)	GG-104 (3)	GH-75 (2)	GJ-38 (4)	HA-115 (6)
Graham Paige 629.....(1928-29)	GB-107 (3)	GC-118 (3)	GD-97 (3)	GEA-77 (3)	GF-69 (2)	GG-104 (3)	GH-75 (2)	GJ-38-39 (4)	HA-115 (6)
Graham Paige 835, C. 12-K....(1928-29)	GB-81 (6)	GC-89 (6)	GD-74 (6)	GEA-55 (6)	GF-51 (6)	GG-77 (6)	GH-35 (6)	GJ-30 (6)	HA-115 (6)
Graham Paige 612.....(1929)	GB-108 (1)	GC-117 (4)	GD-98 (2)	GEA-76 (4)	GF-68 (4)	GG-105 (4)	GH-74 (4)	GJ-37-84 (3)	HA-113 (2)
Graham Paige 615.....(1929)	GB-109 (1)	GC-117 (4)	GD-98 (2)	GEA-76 (4)	GF-68 (4)	GG-105 (4)	GH-74 (4)	GJ-38-39 (4)	HA-114 (2)
Graham Paige 621.....(1929)	GB-107 (3)	GC-118 (3)	GD-97 (3)	GEA-77 (3)	GF-70 (1)	GG-104 (3)	GH-77 (1)	GJ-39 (1)	HA-115 (6)
Graham Paige 827, C. 12-K....(1929)	GB-81 (6)	GC-89 (6)	GD-74 (6)	GEA-55 (6)	GF-51 (6)	GG-77 (6)	GH-35 (6)	GJ-30 (6)	HA-115 (6)
Graham Paige 837, C. 12-K....(1929)	GB-81 (6)	GC-89 (6)	GD-74 (6)	GEA-55 (6)	GF-51 (6)	GG-77 (6)	GH-35 (6)	GJ-30 (6)	HA-115 (6)
Haynes 60.....(1925)	GB-111 (1)	GC-121 (1)	GD-100 (1)	GEA-78 (1)	GF-72 (1)	GG-106 (1)	GH-78 (1)	GJ-40 (1)	HA-117 (1)
Hudson Super 6.....(1925)	GB-112 (2)	GC-122 (2)	GD-101 (2)	GEA-79 (6)	GF-73 (6)	GG-107 (2)	GH-79 (2)	GJ-27 (18)	HA-118 (4)
Hudson Super 6.....(1926)	GB-112 (2)	GC-122 (2)	GD-101 (2)	GEA-79 (6)	GF-73 (6)	GG-107 (2)	GH-79 (2)	GJ-27 (18)	HA-118 (4)
Hudson Super 6.....(1927)	GB-113 (2)	GC-123 (2)	GD-102 (3)	GEA-79 (6)	GF-73 (6)	GG-108 (3)	GH-80 (3)	GJ-27 (18)	HA-118 (4)
Hudson Super 6.....(1928)	GB-113 (2)	GC-123 (2)	GD-102 (3)	GEA-79 (6)	GF-73 (6)	GG-108 (3)	GH-80 (3)	GJ-27 (18)	HA-118 (4)
Hudson Greater 6.....(1929-30)	GB-114 (1)	GC-124 (1)	GD-102 (3)	GEA-79 (6)	GF-73 (6)	GG-108 (3)	GH-80 (3)	GJ-27 (18)	HA-119 (1)
Hudson T. U.....(1930)	GB-255 (1)	GC-263 (1)	GD-221 (1)	GEA-182 (1)	GF-180 (1)	GG-239 (1)	GH-192 (1)	GJ-14 (1)	HA-234 (1)
Hupmobile E1.....(1925-26)	GB-115 (1)	GC-125 (1)	GD-103 (1)	GEA-80 (4)	GF-74 (6)	GG-109 (1)	GH-81 (1)	GJ-41 (2)	HA-120 (3)
Hupmobile Series R.....(1925)	GB-116 (1)	GC-126 (1)	GD-104 (1)	GEA-81 (1)	GF-75 (1)	GG-110 (1)	GH-82 (1)	GJ-42 (1)	HA-121 (1)
Hupmobile A1.....(1926)	GB-118 (2)	GC-128 (2)	GD-106 (4)	GEA-82 (4)	GF-76 (4)	GG-112 (4)	GH-84 (4)	GJ-44 (4)	HA-7 (19)
Hupmobile E2.....(1926-27)	GB-117 (2)	GC-127 (4)	GD-105 (3)	GEA-80 (4)	GF-74 (6)	GG-111 (3)	GH-83 (6)	GJ-41 (2)	HA-120 (3)
Hupmobile A2.....(1927)	GB-118 (2)	GC-128 (2)	GD-106 (4)	GEA-82 (4)	GF-76 (4)	GG-112 (4)	GH-84 (4)	GJ-44 (4)	HA-7 (19)
Hupmobile E3.....(1927-28)	GB-117 (2)	GC-127 (4)	GD-105 (3)	GEA-80 (4)	GF-74 (6)	GG-111 (3)	GH-83 (6)	GJ-43 (4)	HA-120 (3)
Hupmobile Cent. 6.....(1928)	GB-119 (2)	GC-129 (2)	GD-106 (4)	GEA-82 (4)	GF-76 (4)	GG-112 (4)	GH-84 (4)	GJ-44 (4)	HA-122 (2)
Hupmobile Cent. 8.....(1928)	GB-120 (3)	GC-130 (1)	GD-107 (2)	GEA-80 (4)	GF-74 (6)	GG-113 (2)	GH-83 (6)	GJ-43 (4)	HA-123 (3)
Hupmobile Cent. 125.....(1928)	GB-120 (3)	GC-127 (4)	GD-105 (3)	GEA-83 (2)	GF-74 (6)	GG-111 (3)	GH-83 (6)	GJ-43 (4)	HA-124 (1)
Hupmobile Cent. 6.....(1929)	GB-119 (2)	GC-129 (2)	GD-106 (4)	GEA-82 (4)	GF-76 (4)	GG-112 (4)	GH-84 (4)	GJ-44 (4)	HA-122 (2)
Hupmobile M8.....(1928-29)	GB-120 (3)	GC-127 (4)	GD-107 (2)	GEA-83 (2)	GF-74 (6)	GG-113 (2)	GH-83 (6)	GJ-43 (4)	HA-126 (1)
Hupmobile S6.....(1930)	GB-121 (1)	GC-131 (1)	GD-108 (2)	GEA-183 (1)	GF-181 (1)	GG-240 (1)	GH-193 (1)	GJ-18 (1)	HA-125 (1)
Hupmobile C8.....(1930)	GB-122 (1)	GC-132 (1)	GD-108 (2)	GEA-184 (1)	GF-182 (1)	GG-114 (1)	GH-194 (1)	GJ-85 (1)	HA-127 (1)
Jewett 6-50.....(1925)	GB-123 (1)	GC-133 (1)	GD-109 (1)	GEA-84 (2)	GF-77 (1)	GG-115 (1)	GH-85 (1)	GJ-59 (5)	HA-7 (19)
Jewett 6-40, Cont. 18-L.....(1926)	GB-124 (1)	GC-134 (1)	GD-110 (1)	GEA-84 (2)	GF-78 (2)	GG-116 (1)	GH-41 (4)	GJ-45 (1)	HA-128 (1)
Jordan K, L, Cont. 6-S.....(1925)	GB-34 (4)	GC-36 (4)	GD-31 (2)	GEA-6 (1)	GF-79 (1)	GG-32 (4)	GH-86 (1)	GJ-17 (11)	HA-129 (1)
Jordan A, Cont. 9-K.....(1925)	GB-125 (3)	GC-135 (3)	GD-111 (3)	GEA-85 (3)	GF-80 (3)	GG-117 (3)	GH-87 (3)	GJ-46 (3)	HA-130 (4)
Jordan A, Cont. 9-K.....(1926)	GB-125 (3)	GC-135 (3)	GD-111 (3)	GEA-85 (3)	GF-80 (3)	GG-117 (3)	GH-87 (3)	GJ-46 (3)	HA-130 (4)
Jordan J, Cont. 8-S.....(1926)	GB-68 (3)	GC-74 (3)	GD-61 (3)	GEA-86 (1)	GF-40 (11)	GG-64 (3)	GH-43 (8)	GJ-24 (18)	HA-131 (2)
Jordan AA, Cont. 9-K.....(1927-28)	GB-125 (3)	GC-135 (3)	GD-111 (3)	GEA-85 (3)	GF-80 (3)	GG-117 (3)	GH-87 (3)	GJ-46 (3)	HA-130 (4)
Jordan J, Cont. 8-S.....(1927)	GB-68 (3)	GC-74 (3)	GD-61 (3)	GEA-46 (2)	GF-40 (11)	GG-64 (3)	GH-43 (8)	GJ-24 (18)	HA-131 (2)
Jordan R, Cont. 12-E.....(1927-28)	GB-126 (1)	GC-136 (1)	GD-112 (1)	GEA-88 (4)	GF-81 (2)	GG-118 (3)	GH-88 (2)	GJ-47 (6)	HA-7 (19)
Jordan JJ Cont. 14-S.....(1928)	GB-69 (5)	GC-75 (5)	GD-62 (5)	GEA-47 (3)	GF-40 (11)	GG-65 (3)	GH-43 (8)	GJ-24 (18)	HA-132 (1)
Jordan JE, Cont. 14-S.....(1928-29)	GB-69 (5)	GC-75 (5)	GD-62 (5)	GEA-47 (3)	GF-40 (11)	GG-65 (3)	GH-43 (8)	GJ-48 (4)	HA-133 (1)
Jordan E, Cont. 18-C.....(1929)	GB-127 (2)	GC-137 (2)	GD-113 (2)	GEA-88 (4)	GF-83 (1)	GG-118 (3)	GH-88 (2)	GJ-48 (4)	HA-134 (1)
Jordan G, Cont. 15-S.....(1929)	GB-129 (2)	GC-139 (2)	GD-115 (2)	GEA-88 (4)	GF-40 (11)	GG-120 (2)	GH-43 (8)	GJ-48 (4)	HA-136 (2)
Jordan T80, Cont. 17-S.....(1930)	GB-128 (1)	GC-138 (1)	GD-114 (1)	GEA-185 (1)	GF-82 (1)	GG-119 (1)	GH-195 (1)	GJ-48 (1)	HA-135 (1)
Jordan G90, Cont. 15-S.....(1930)	GB-129 (2)	GC-139 (2)	GD-115 (2)	GEA-88 (4)	GF-40 (11)	GJ-120 (2)	GH-43 (8)	GJ-48 (4)	HA-136 (2)
Kissel 6-55.....(1925)	GB-130 (1)	GC-140 (3)	GD-116 (3)	GEA-89 (3)	GF-84 (3)	GG-121 (3)	GH-89 (3)	GJ-49 (3)	HA-137 (4)
Kissel 8-75, Lyc. 3-H.....(1925)	GB-131 (1)	GC-141 (3)	GD-117 (3)	GEA-90 (3)	GF-8 (26)	GG-122 (3)	GH-5 (35)	GJ-5 (17)	HA-138 (7)
Kissel 6-55.....(1926)	GB-130 (3)	GC-140 (3)	GD-116 (3)	GEA-89 (3)	GF-84 (3)	GG-121 (3)	GH-89 (3)	GJ-49 (3)	HA-137 (4)
Kissel 8-75, Lyc. 3-H.....(1926)	GB-131 (3)	GC-141 (3)	GD-117 (3)	GEA-90 (3)	GF-8 (26)	GG-122 (3)	GH-5 (35)	GJ-2 (17)	HA-138 (7)
Kissel 6-55.....(1927)	GB-130 (3)	GC-140 (3)	GD-116 (3)	GEA-89 (3)	GF-84 (3)	GG-121 (3)	GH-89 (3)	GJ-49 (3)	HA-139 (1)
Kissel 8-65, Lyc. WS.....(1927)	GB-11 (5)	GC-11 (9)	GD-11 (9)	GEA-13 (18)	GF-10 (30)	GG-11 (9)	GH-9 (22)	GJ-2 (17)	HA-140 (1)
Kissel 8-75, Lyc. 3-H.....(1927)	GB-131 (3)	GC-141 (3)	GD-117 (3)	GEA-90 (3)	GF-8 (26)	GG-122 (3)	GH-5 (35)	GJ-2 (17)	HA-138 (7)
Kissel 6-70, Lyc. WS.....(1928)	GB-11 (5)	GC-11 (9)	GD-11 (9)	GEA-13 (18)	GF-10 (30)	GG-11 (9)	GH-9 (22)	GJ-5 (33)	HA-141 (1)
Kissel 8-80, Lyc. GS.....(1928)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-142 (4)
Kissel 8-80 S, Lyc. GS.....(1928)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (30)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-142 (4)
Kissel 8-90, Lyc. HM.....(1928)	GB-132 (1)	GC-142 (1)	GD-118 (1)	GEA-8 (12)	GF-85 (2)	GG-123 (1)	GH-5 (35)	GJ-6 (19)	HA-142 (4)
Kissel 6-73, Lyc. WR.....(1929)	GB-14 (4)	GC-11 (9)	GD-11 (9)	GEA-13 (18)	GF-10 (28)	GG-11 (9)	GH-9 (22)	GJ-5 (33)	HA-143 (1)
Kissel 8-95, Lyc. GS.....(1929)	GB-12 (9)	GC-12 (11)	GD-12 (11)	GEA-13 (18)	GF-10 (28)	GG-12 (11)	GH-9 (22)	GJ-5 (33)	HA-142 (4)
Kissel 8-126, Lyc. MD.....(1929)	GB-90 (7)	GC-99 (7)	GD-81 (7)	GEA-15 (6)	GF-85 (2)	GG-86 (7)	GH-9 (22)	GJ-6 (19)	HA-144 (1)
La Salle 303.....(1927)	GB-133 (2)	GC-143 (3)	GD-119 (3)	GEA-29 (6)	GF-19 (6)	GG-124 (2)	GH-93 (2)	†GJ-13 (6)	HA-145 (2)
La Salle 303.....(1928)	GB-133 (2)	GC-143 (3)	GD-119 (3)	GEA-29 (6)	GF-19 (6)	GG-124 (2)	GH-93 (2)	†GJ-13 (6)	HA-145 (2)
La Salle 328.....(1929)	GB-134 (1)	GC-143 (3)	GD-119 (3)	GEA-29 (6)	GF-19 (6)	GG-125 (1)	GH-20 (3)	†GJ-13 (6)	HA-146 (1)
La Salle 340.....(1930)	GB-135 (1)	GC-144 (1)	GD-120 (1)	GEA-186 (1)	GF-188 (1)	GG-126 (1)	GH-196 (1)	†GJ-13 (1)	HA-147 (1)
Lexington Concord, Ans. F....(1925)	GB-137 (1)	GC-146 (1)	GD-122 (1)	GEA-92 (1)	GF-87 (1)	GG-128 (1)	GH-94 (3)	None	HA-148 (3)
Lexington M. M., Ans. M.....(1925)	GB-138 (1)	GC-147 (1)	GD-123 (1)	GEA-93 (1)	GF-86 (2)	GG-127 (2)	GH-94 (3)	None	HA-148 (3)
Lexington M. M. 6-50, Ans. M.(1926)	GB-136 (1)	GC-145 (1)	GD-121 (1)	GEA-91 (1)	GF-86 (2)	GG-127 (2)	GH-94 (3)	None	HA-148 (3)
Lincoln 8.....(1925)	GB-139 (2)	GC-148 (6)	GD-124 (2)	GEA-94 (6)	GF-88 (6)	GG-129 (6)	GH-95 (6)	GJ-16 (9)	HA-149 (8)
Lincoln 8.....(1926)	GB-139 (2)	GC-148 (6)	GD-124 (2)	GEA-94 (6)	GF-88 (6)	GG-129 (6)	GH-95 (6)	GJ-16 (9)	HA-149 (8)
Lincoln 8.....(1927)	GB-140 (3)	GC-148 (6)	GD-125 (3)	GEA-94 (6)	GF-88 (6)	GG-129 (6)	GH-95 (6)	GJ-16 (9)	HA-149 (8)
Lincoln 8.....(1928)	GB-140 (3)	GC-148 (6)	GD-125 (3)	GEA-94 (6)	GF-88 (6)	GG-129 (6)	GH-95 (6)	GJ-16 (9)	HA-149 (8)
Lincoln 8.....(1929)	GB-140 (3)	GC-148 (6)	GD-125 (3)	GEA-94 (6)	GF-88 (6)	GG-129 (6)	GH-95 (6)	GJ-16 (9)	HA-150 (1)
Locomobile Jr. 6.....(1925)	GB-141 (1)	GC-149 (1)	GD-126 (1)	GEA-95 (1)	GF-89 (1)	GG-130 (1)	GH-96 (1)	GJ-24 (18)	HA-151 (1)
Locomobile Jr 8.....(1925)	GB-142 (2)	GC-150 (2)	GD-127 (2)	GEA-96 (2)	GF-90 (2)	GG-131 (2)	GH-97 (2)	GJ-50 (3)	HA-80 (6)
Locomobile 48.....(1925)	§ None	GC-151 (6)	GD-128 (6)	GEA-97 (6)	GF-91 (6)	GG-132 (6)	GH-98 (6)	None	HA-152 (6)
Locomobile 48.....(1926)	§ None	GC-151 (6)	GD-128 (6)	GEA-97 (6)	GF-91 (6)	GG-132 (6)	GH-98 (6)	None	HA-152 (6)
Locomobile 90.....(1926)	GB-143 (3)	GC-152 (4)	GD-129 (4)	GEA-98 (4)	GF-92 (4)	GG-133 (4)	GH-99 (4)	GJ-51 (4)	HA-153 (4)
Locomobile Jr. 8.....(1926)	GB-142 (2)	GC-150 (2)	GD-127 (2)	GEA-96 (2)	GF-90 (2)	GG-131 (2)	GH-97 (2)	GJ-50 (3)	HA-80 (6)
Locomobile 48.....(1927)	§ None	GC-151 (6)	GD-128 (6)	GEA-97 (6)	GF-91 (6)	GG-132 (6)	GH-98 (6)	None	HA-152 (6)
Locomobile 8-66.....(1927)	GB-144 (1)	GC-153 (1)	GD-130 (1)	GEA-99 (1)	GF-93 (1)	GG-134 (1)	GH-100 (1)	GJ-50 (3)	HA-154 (1)
Locomobile 8-80, Lyc. HD.....(1927)	GB-145 (4)	GC-154 (4)	GD-131 (4)	GEA-100 (3)	GF-94 (4)	GG-135 (4)	GH-5 (35)	GJ-2 (17)	HA-22 (6)
Locomobile 90.....(1927)	GB-143 (3)	GC-152 (4)	GD-129 (4)	GEA-98 (4)	GF-92 (4)	GG-133 (4)	GH-99 (4)	GJ-51 (4)	HA-153 (4)
Locomobile 48.....(1928)	§ None	GC-151 (6)	GD-128 (6)	GEA-97 (6)	GF-91 (6)	GG-132 (6)	GH-98 (6)	None	HA-152 (6)
Locomobile 8-70, Cont. 8-S....(1928)	GB-146 (1)	GC-155 (1)	GD-132 (1)	GEA-101 (1)	GF-40 (11)	GG-136 (1)	GH-43 (8)	GJ-24 (18)	HA-156 (1)
Locomobile 8-80, Lyc. HD.....(1928)	GB-145 (4)	GC-154 (4)	GD-131 (4)	GEA-100 (3)	GF-94 (4)	GG-135 (4)	GH-5 (35)	GJ-6 (19)	HA-22 (6)
Locomobile 90.....(1928)	GB-143 (3)	GC-152 (4)	GD-129 (4)	GEA-98 (4)	GF-92 (4)	GG-133 (4)	GH-99 (4)	GJ-51 (4)	HA-153 (4)
Locomobile 48.....(1929)	§ None	GC-151 (6)	GD-128 (6)	GEA-97 (6)	GF-91 (6)	GG-132 (6)	GH-98 (6)	None	HA-152 (6)
Locomobile 8-80, Lyc. HD.....(1929)	GB-145 (4)	GC-154 (4)	GD-131 (4)	GEA-100 (3)	GF-94 (4)	GG-135 (4)	GH-5 (35)	GJ-6 (19)	HA-22 (6)
Locomobile 86, 88, Lyc. HDL..(1929)	GB-145 (4)	GC-154 (4)	GD-131 (4)	GEA-102 (3)	GF-94 (4)	GG-135 (4)	GH-5 (35)	GJ-6 (19)	HA-22 (6)

FOOTNOTE: *For corresponding Whitney chain numbers see page 211.*

Digitized by Google

ENGINE ASSEMBLY, Section 2—Continued

Car Make and Model	Cylinder Head	Crankcase (Oil Pan)	Camshaft	Camshaft or Eccentric Shaft Front Bushing	Camshaft Gear or Sprocket	Crankshaft	Crankshaft Gear or Sprocket	Timing Chain (See Footnote)	Muffler
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Locomobile 90.....(1929)	GB-143 (3)	GC-152 (4)	GD-129 (4)	GEA-98 (4)	GF-92 (4)	GG-133 (4)	GH-99 (4)	GJ-51 (4)	HA-153 (4)
Marmon 74.....(1925)	GB-147 (2)	GC-156 (2)	GD-133 (2)	GEA-102 (3)	GF-95 (2)	GG-137 (2)	GH-102 (2)	None	HA-149 (8)
Marmon 74.....(1926)	GB-147 (2)	GC-156 (2)	GD-133 (2)	GEA-102 (3)	GF-95 (2)	GG-137 (2)	GH-102 (2)	None	HA-149 (8)
Marmon Little.....(1927)	GB-148 (1)	GC-157 (1)	GD-134 (3)	GEA-103 (3)	GF-96 (1)	GG-138 (1)	GH-103 (1)	GJ-33	HA-7 (19)
Marmon E75.....(1927)	GB-149 (2)	GC-158 (2)	GD-135 (2)	GEA-104 (2)	GF-97 (2)	GG-139 (2)	GH-104 (2)	None	HA-149 (8)
Marmon 68.....(1928)	GB-150 (2)	GC-159 (3)	GD-136 (2)	GEA-105 (2)	GF-99 (3)	GG-140 (2)	GH-105 (3)	GJ-52 (2)	HA-157 (4)
Marmon E75.....(1928)	GB-149 (2)	GC-158 (2)	GD-135 (2)	GEA-104 (2)	GF-97 (2)	GG-139 (2)	GH-104 (2)	None	HA-149 (8)
Marmon 78.....(1928)	GB-151 (2)	GC-160 (2)	GD-134 (3)	GEA-103 (3)	GF-98 (2)	GG-141 (2)	GH-106 (2)	GJ-53 (2)	HA-157 (4)
Marmon Roosevelt.....(1929)	GB-211 (1)	GC-159 (3)	GD-197 (1)	None	GF-99 (3)	GG-203 (1)	GH-105 (3)	GJ-52 (9)	HA-207 (1)
Marmon 68.....(1929)	GB-150 (2)	GC-159 (3)	GD-136 (2)	GEA-105 (2)	GF-99 (3)	GG-140 (2)	GH-105 (3)	GJ-52 (2)	HA-157 (4)
Marmon 78.....(1929)	GB-151 (2)	GC-160 (2)	GD-134 (3)	GEA-103 (3)	GF-98 (2)	GG-141 (2)	GH-106 (2)	GJ-53 (2)	HA-157 (4)
Marmon 69.....(1930)	GB-250 (1)	GC-259 (1)	GD-222 (1)	GEA-177 (1)	GF-183 (1)	GG-241 (1)	GH-197 (1)	GJ-52 (1)	HA-235 (1)
Marmon 70.....(1930)	GB-251 (1)	GC-260 (1)	GD-223 (1)	GEA-178 (1)	GF-184 (1)	GG-242 (1)	GH-198 (1)	GJ-87 (1)	HA-236 (1)
Marmon Big 8.....(1930)	GB-252 (1)	GC-161 (1)	GD-137 (1)	GEA-179 (1)	GF-185 (1)	GG-243 (1)	GH-199 (1)	GJ-87 (1)	HA-158 (2)
Marquette.....(1929-30)	GB-152 (1)	GC-162 (1)	GD-138 (1)	GEA-187 (1)	GF-100 (1)	GG-142 (1)	GH-200 (1)	GJ-54 (1)	HA-158 (2)
Maxwell 25.....(1925)	GB-48 (2)	GC-50 (2)	GD-46 (2)	GEA-37 (3)	GF-30 (5)	GG-45 (2)	GH-31 (2)	None	HA-41 (5)
Moon Series A, Cont. 7-Z.....(1925)	GB-153 (4)	GC-163 (4)	GD-139 (4)	GEA-107 (4)	GF-101 (4)	GG-143 (4)	GH-2 (11)	GJ-24 (18)	HA-21 (9)
Moon Series A, Cont. 7-Z.....(1926)	GB-153 (4)	GC-163 (4)	GD-139 (4)	GEA-107 (4)	GF-101 (4)	GG-143 (4)	GH-2 (11)	GJ-24 (18)	HA-21 (9)
Moon Series A, Cont. 7-Z.....(1927)	GB-153 (4)	GC-163 (4)	GD-139 (4)	GEA-107 (4)	GF-101 (4)	GG-143 (4)	GH-2 (11)	GJ-24 (18)	HA-21 (9)
Moon 6-60, Cont. 26-L.....(1927)	GB-154 (2)	GC-164 (2)	GD-140 (2)	GEA-108 (2)	GF-102 (2)	GG-144 (2)	GH-8 (5)	GJ-4 (10)	HA-159 (2)
Moon Series A, Cont. 7-Z.....(1928)	GB-153 (4)	GC-163 (4)	GD-139 (4)	GEA-107 (4)	GF-101 (4)	GG-143 (4)	GH-2 (11)	GJ-24 (18)	HA-21 (9)
Moon 6-60, Cont. 26-L.....(1928)	GB-154 (2)	GC-164 (2)	GD-140 (2)	GEA-108 (2)	GF-102 (2)	GG-144 (2)	GH-8 (5)	GJ-4 (10)	HA-159 (2)
Moon 6-72, Cont. 11-E.....(1928)	GB-155 (3)	GC-165 (3)	GD-141 (3)	GEA-87 (4)	GF-103 (2)	GG-145 (3)	GH-109 (5)	GJ-47 (6)	HA-160 (2)
Moon 8-80, Cont. 15-S.....(1928)	GB-156 (2)	GC-166 (2)	GD-142 (2)	GEA-109 (2)	GF-40 (11)	GG-146 (2)	GH-101 (2)	GJ-48 (18)	HA-161 (2)
Moon 6-72, Cont. 11-E.....(1929)	GB-155 (3)	GC-165 (3)	GD-141 (3)	GEA-87 (4)	GF-103 (2)	GG-145 (3)	GH-109 (5)	GJ-47 (6)	HA-160 (2)
Moon 8-80, Cont. 15-S.....(1929)	GB-156 (2)	GC-166 (2)	GD-142 (2)	GEA-109 (2)	GF-40 (11)	GG-146 (2)	GH-101 (2)	GJ-48 (18)	HA-161 (2)
Nash Adv. 6.....(1925)	GB-157 (1)	GC-167 (1)	GD-143 (1)	GEA-110 (2)	GF-104 (2)	GG-147 (1)	GH-110 (2)	None	HA-162 (2)
Nash Spec. 6.....(1925)	GB-158 (2)	GC-168 (2)	GD-144 (2)	GEA-111 (3)	GF-105 (2)	GG-148 (2)	GH-111 (2)	None	HA-163 (5)
Nash Adv. 6.....(1926)	GB-159 (3)	GC-169 (4)	GD-145 (3)	GEA-110 (2)	GF-104 (2)	GG-149 (3)	GH-110 (2)	None	HA-162 (2)
Nash Spec. 6.....(1926)	GB-158 (2)	GC-168 (2)	GD-144 (2)	GEA-112 (2)	GF-105 (2)	GG-148 (2)	GH-111 (2)	None	HA-163 (5)
Nash Adv. 6.....(1927)	GB-159 (3)	GC-169 (4)	GD-145 (3)	GEA-113 (2)	GF-106 (3)	GG-149 (3)	GH-112 (3)	None	HA-164 (3)
Nash Spec. 6.....(1927)	GB-160 (2)	GC-170 (1)	GD-146 (2)	GEA-112 (2)	GF-107 (3)	GG-150 (2)	GH-113 (3)	None	HA-163 (5)
Nash Light 6.....(1927)	GB-1 (4)	GC-1 (4)	GD-1 (4)	GEA-1 (4)	GF-1 (4)	GG-1 (4)	GH-1 (3)	None	HA-1 (4)
Nash Adv. 6.....(1928)	GB-159 (3)	GC-169 (4)	GD-145 (3)	GEA-113 (2)	GF-106 (3)	GG-149 (3)	GH-112 (3)	None	HA-164 (3)
Nash Spec. 6.....(1928)	GB-160 (2)	GC-171 (1)	GD-146 (2)	GEA-111 (3)	GF-107 (3)	GG-150 (2)	GH-113 (3)	None	HA-163 (5)
Nash Std. 6.....(1928)	GB-1 (4)	GC-1 (4)	GD-1 (4)	GEA-1 (4)	GF-1 (4)	GG-1 (4)	GH-114 (2)	None	HA-1 (4)
Nash Adv. 6.....(1929)	GB-161 (1)	GC-169 (4)	GD-147 (1)	GEA-114 (1)	GF-106 (3)	GG-151 (1)	GH-112 (3)	None	HA-164 (3)
Nash Spec. 6.....(1929)	GB-162 (1)	GC-172 (1)	GD-148 (1)	GEA-111 (3)	GF 107 (3)	GG-152 (1)	GH-113 (3)	None	HA-163 (5)
Nash Std. 6.....(1929)	GB-1 (4)	GC-1 (4)	GD-1 (4)	GEA-1 (4)	GF-1 (4)	GG-1 (4)	GH-114 (2)	None	HA-1 (4)
Oakland 6-54.....(1925)	GB-163 (1)	GC-173 (1)	GD-149 (1)	GEA-115 (3)	GF-108 (3)	GG-153 (1)	GH-115 (3)	GJ-19 (17)	HA-165 (2)
Oakland O-6.....(1926)	GB-164 (2)	GC-174 (2)	GD-150 (2)	GEA-115 (3)	GF-108 (3)	GG-154 (2)	GH-115 (3)	GJ-19 (17)	HA-165 (2)
Oakland GO-6.....(1927)	GB-164 (2)	GC-174 (2)	GD-150 (2)	GEA-115 (3)	GF-108 (3)	GG-154 (2)	GH-115 (3)	GJ-19 (17)	HA-166 (1)
Oakland AA-6.....(1928)	GB-165 (1)	GC-175 (2)	GD-151 (2)	GEA-116 (2)	GF-109 (2)	GG-155 (2)	GH-116 (2)	GJ-56 (2)	HA-167 (1)
Oakland AA-6.....(1929)	GB-166 (1)	GC-175 (2)	GD-151 (2)	GEA-116 (2)	GF-109 (2)	GG-155 (2)	GH-116 (2)	GJ-56 (2)	HA-168 (1)
Oakland 101.....(1930)	GB-253 (1)	GC-261 (1)	GD-224 (1)	GEA-180 (1)	GF-186 (1)	GG-244 (1)	GH-201 (1)	GJ-89 (1)	HA-237 (1)
Oldsmobile 30-C.....(1925)	GB-167 (2)	GC-176 (2)	GD-152 (2)	GEA-117 (3)	GF-110 (1)	GG-156 (2)	GH-117 (1)	GJ-19 (17)	HA-169 (2)
Oldsmobile 30-D.....(1926)	GB-167 (2)	GC-176 (2)	GD-152 (2)	GEA-117 (3)	GF-111 (2)	GG-156 (2)	GH-118 (2)	GJ-19 (17)	HA-169 (2)
Oldsmobile 30-E.....(1927)	GB-168 (1)	GC-177 (1)	GD-153 (1)	GEA-117 (3)	GF-111 (2)	GG-157 (1)	GH-118 (2)	GJ-19 (17)	HA-170 (1)
Oldsmobile F-28.....(1928)	GB-169 (2)	GC-178 (2)	GD-154 (2)	GEA-118 (2)	GF-112 (2)	GG-158 (2)	GH-119 (2)	GJ-14 (15)	HA-171 (2)
Oldsmobile F-29.....(1929)	GB-169 (2)	GC-178 (2)	GD-154 (2)	GEA-118 (2)	GF-112 (2)	GG-158 (2)	GH-119 (2)	GJ-14 (15)	HA-171 (2)
Overland 91.....(1925)	GB-170 (2)	GC-179 (2)	GD-155 (2)	GEA-119 (2)	GF-113 (2)	GG-159 (2)	GH-120 (2)	None	HA-172 (2)
Overland 93.....(1925)	GB-171 (3)	GC-180 (2)	GD-156 (3)	GEA-120 (2)	GF-114 (3)	GG-160 (3)	GH-121 (3)	None	HA-47 (4)
Overland 91.....(1926)	GB-170 (2)	GC-179 (2)	GD-155 (2)	GEA-119 (2)	GF-113 (2)	GG-159 (2)	GH-120 (2)	None	HA-172 (2)
Overland 93.....(1926)	GB-171 (3)	GC-180 (2)	GD-156 (3)	GEA-120 (2)	GF-114 (3)	GG-160 (3)	GH-121 (3)	None	HA-47 (4)
Packard 6 Cyl., 326-333.....(1925)	GB-176 (2)	GC-186 (2)	GD-161 (3)	GEA-123 (1)	GF-117 (5)	GG-165 (2)	GH-125 (9)	GJ-27 (18)	HA-174 (2)
Packard 8 Cyl., 236-243.....(1925)	GB-177 (2)	GC-187 (2)	GD-162 (2)	GEA-124 (1)	GF-117 (5)	GG-166 (2)	GH-126 (3)	GJ-27 (18)	HA-175 (2)
Packard 6 Cyl., 326-333.....(1926)	GB-176 (2)	GC-186 (2)	GD-161 (3)	GEA-125 (12)	GF-117 (5)	GG-165 (2)	GH-125 (9)	GJ-27 (18)	HA-174 (2)
Packard 8 Cyl., 236-243.....(1926)	GB-177 (2)	GC-187 (2)	GD-162 (2)	GEA-125 (12)	GF-117 (5)	GG-166 (2)	GH-126 (3)	GJ-27 (18)	HA-175 (2)
Packard 6 Cyl., 426-433.....(1927)	GB-178 (3)	GC-188 (1)	GD-161 (3)	GEA-125 (12)	GF-117 (5)	GG-167 (1)	GH-125 (9)	GJ-27 (18)	HA-176 (3)
Packard 8 Cyl., 336-343.....(1927)	GB-179 (2)	GC-189 (1)	GD-163 (1)	GEA-125 (12)	GF-118 (1)	GG-168 (1)	GH-126 (3)	GJ-27 (18)	HA-177 (2)
Packard 526.....(1928)	GB-178 (3)	GC-190 (2)	GD-164 (2)	GEA-125 (12)	GF-119 (8)	GG-169 (2)	GH-125 (9)	GJ-17 (11)	HA-176 (3)
Packard Std. 8-443.....(1928)	GB-179 (2)	GC-191 (1)	GD-165 (3)	GEA-125 (12)	GF-119 (8)	GG-170 (4)	GH-125 (9)	GJ-17 (11)	HA-177 (2)
Packard 533.....(1928)	GB-178 (3)	GC-190 (2)	GD-164 (2)	GEA-125 (12)	GF-119 (8)	GG-169 (2)	GH-125 (9)	GJ-17 (11)	HA-176 (3)
Packard 626.....(1929)	GB-180 (6)	GC-192 (3)	GD-166 (3)	GEA-125 (12)	GF-119 (8)	GG-170 (4)	GH-125 (9)	GJ-17 (11)	HA-178 (3)
Packard 633.....(1929)	GB-180 (6)	GC-192 (3)	GD-166 (3)	GEA-125 (12)	GF-119 (8)	GG-170 (4)	GH-125 (9)	GJ-17 (11)	HA-178 (3)
Packard 640-645.....(1929)	GB-180 (6)	GC-193 (2)	GD-165 (3)	GEA-125 (12)	GF-119 (8)	GG-171 (2)	GH-125 (9)	GJ-17 (11)	HA-179 (2)
Packard 726-733.....(1930)	GB-180 (6)	GC-192 (3)	GD-166 (3)	GEA-125 (12)	GF-119 (8)	GG-170 (4)	GH-202 (1)	GJ-17 (11)	HA-178 (3)
Packard 740-745.....(1930)	GB-180 (6)	GC-193 (2)	GD-165 (3)	GEA-125 (12)	GF-119 (8)	GG-171 (2)	GH-203 (1)	GJ-17 (11)	HA-179 (2)
Paige 6-70 Cont. 10-A.....(1925)	GB-181 (1)	GC-194 (1)	GD-167 (1)	GEA-3 (15)	GF-120 (1)	GG-172 (1)	GH-127 (1)	GJ-38 (4)	HA-180 (1)
Paige 6-72.....(1926)	GB-182 (2)	GC-195 (2)	GD-168 (2)	GEA-126 (3)	GF-121 (1)	GG-173 (2)	GH-128 (1)	GJ-59 (5)	HA-130 (4)
Paige 6-45, Cont. 19-L.....(1927-28)	GB-183 (1)	GC-196 (1)	GD-169 (1)	GEA-126 (3)	GF-78 (2)	GG-174 (1)	GH-8 (5)	GJ-45 (5)	HA-61 (5)
Paige 6-65.....(1927-28)	GB-182 (2)	GC-195 (2)	GD-168 (2)	GEA-126 (3)	GF-122 (1)	GG-173 (2)	GH-129 (2)	GJ-59 (5)	HA-9 (15)
Paige 6-75.....(1927-28)	GB-184 (1)	GC-197 (1)	GD-170 (1)	GEA-127 (1)	GF-123 (1)	GG-175 (1)	GH-129 (2)	GJ-59 (5)	HA-42 (3)
Paige 8-85, Lyc. MD.....(1927-28)	GB-90 (7)	GC-99 (7)	GD-81 (7)	GEA-8 (12)	GF-8 (26)	GG-86 (7)	GH-5 (35)	GJ-2 (17)	HA-183 (1)
Peerless 70.....(1925)	GB-185 (2)	GC-198 (2)	GD-171 (2)	GEA-128 (7)	GF-124 (1)	GG-176 (2)	GH-130 (2)	GJ-27 (18)	HA-184 (6)
Peerless 8-67.....(1925)	GB-186 (4)	GC-199 (4)	GD-172 (4)	GEA-128 (7)	GF-126 (4)	GG-177 (4)	GH-131 (4)	None	HA-185 (4)
Peerless 80, Cont. 8-U.....(1926)	GB-187 (3)	GC-200 (3)	GD-173 (3)	GEA-43 (9)	GF-127 (4)	GG-178 (5)	GH-68 (6)	GJ-23 (9)	HA-3 (8)
Peerless 69.....(1926)	GB-186 (4)	GC-199 (4)	GD-172 (4)	GEA-128 (7)	GF-126 (4)	GG-177 (4)	GH-131 (4)	GJ-60 (7)	HA-185 (4)
Peerless 60, Cont. 10-E.....(1927)	GB-188 (2)	GC-201 (2)	GD-174 (2)	GEA-87 (4)	GF-127 (4)	GG-178 (5)	GH-109 (5)	GJ-47 (6)	HA-3 (8)
Peerless 69.....(1927)	GA-186 (4)	GC-199 (4)	GD-172 (4)	GEA-128 (7)	GF-126 (4)	GG-177 (4)	GH-131 (4)	None	HA-185 (4)
Peerless 72.....(1927-28)	GB-185 (2)	GC-198 (2)	GD-171 (2)	GEA-128 (7)	GF-128 (4)	GG-176 (2)	GH-130 (2)	GJ-60 (7)	HA-184 (6)
Peerless 80, Cont. 8-U.....(1927)	GB-187 (3)	GC-200 (3)	GD-173 (3)	GEA-43 (9)	GF-127 (4)	GG-178 (5)	GH-68 (6)	GJ-23 (9)	HA-3 (8)
Peerless 90.....(1927-28)	GB-189 (1)	GC-202 (1)	GD-175 (3)	GEA-129 (3)	GF-128 (4)	GG-179 (1)	GH-133 (3)	GJ-60 (7)	HA-184 (6)
Peerless 60, Cont. 10-E.....(1928)	GB-188 (2)	GC-201 (1)	GD-174 (2)	GEA-87 (4)	GF-129 (1)	GG-178 (5)	GH-109 (5)	GJ-47 (6)	HA-3 (8)
Peerless 69.....(1928)	GB-186 (4)	GC-199 (4)	GD-172 (4)	GEA-128 (7)	GF-126 (4)	GG-177 (4)	GH-131 (4)	GJ-60 (7)	HA-185 (4)
Peerless 80, Cont. 8-U.....(1928)	GB-187 (3)	GC-200 (3)	GD-173 (3)	GEA-43 (9)	GF-127 (4)	GG-178 (5)	GH-68 (6)	GJ-23 (9)	HA-3 (8)
Peerless 91.....(1928)	GB-190 (2)	GC-203 (2)	GD-175 (3)	GEA-128 (7)	GF-128 (4)	GG-180 (2)	GH-133 (3)	GJ-60 (7)	HA-184 (6)
Peerless 6-81, Cont. 18-C.....(1929)	GB-127 (2)	GC-137 (2)	GD-113 (2)	GEA-129 (3)	GF-130 (1)	GG-118 (3)	GH-68 (6)	GJ-23 (9)	HA-3 (8)
Peerless 6-91.....(1929)	GB-190 (2)	GC-203 (2)	GD-175 (3)	GEA-130 (1)	GF-128 (4)	GG-180 (2)	GH-133 (3)	GJ-60 (7)	HA-184 (6)
Peerless 61, Cont. 11-E.....(1929-30)	GB-155 (3)	GC-165 (3)	GD-141 (3)	GEA-43 (9)	GF-81 (2)	GG-145 (3)	GH-109 (5)	GJ-47 (6)	HA-3 (8)
Peerless 125, Cont. 12-K.....(1929-30)	GB-81 (6)	GC-89 (6)	GD-74 (6)	GEA-129 (3)	GF-51 (6)	GG-77 (6)	GH-35 (6)	GJ-30 (6)	HA-186 (1)
Pierce Arrow 80.....(1925)	GB-191 (3)	GC-204 (3)	GD-176 (4)	GEA-131 (4)	GF-131 (3)	GG-181 (3)	GH-135 (3)	GJ-61 (2)	HA-138 (7)
Pierce Arrow 33.....(1926)	GB-192 (1)	GC-205 (1)	GD-177 (1)	GEA-132 (1)	GF-134 (1)	GG-182 (1)	GH-136 (1)	None	HA-187 (1)
Pierce Arrow 80.....(1926)	GB-191 (3)	GC-204 (3)	GD-176 (4)	GEA-131 (4)	GF-131 (3)	GG-181 (3)	GH-135 (3)	GJ-61 (2)	HA-138 (7)
Pierce Arrow 36.....(1927)	GB-193 (2)	GC-206 (2)	GD-178 (2)	GEA-133 (2)	GF-135 (2)	GG-183 (2)	GH-137 (2)	None	HA-188 (2)
Pierce Arrow 80.....(1927)	GB-191 (3)	GC-204 (3)	GD-176 (4)	GEA-131 (4)	GF-131 (3)	GG-181 (3)	GH-135 (3)	GJ-62 (2)	HA-138 (7)
Pierce Arrow 36.....(1928)	GB-193 (2)	GC-206 (2)	GD-178 (2)	GEA-133 (2)	GF-135 (2)	GG-183 (2)	GH-137 (2)	None	HA-188 (2)
Pierce Arrow 81.....(1928)	GB-194 (1)	GC-207 (1)	GD-176 (4)	GEA-131 (4)	GF-132 (1)	GG-184 (1)	GH-138 (1)	GJ-62 (2)	HA-138 (7)
Pierce Arrow 133-143.....(1929-30)	GB-195 (1)	GC-208 (1)	GD-179 (1)	GEA-144 (2)	GF-133 (1)	GG-185 (1)	GH-139 (1)	GJ-63 (1)	HA-189 (1)
Plymouth 4 Cyl.....(1929-30)	GB-196 (1)	GC-209 (1)	GD-180 (1)	GEA-38 (2)	GF-30 (5)	GG-186 (1)	GH-34 (3)	None	HA-64 (2)
Pontiac 6.....(1926)	GB-198 (2)	GC-211 (2)	GD-182 (2)	None	GF-136 (4)	GG-188 (2)	GH-140 (4)	GJ-64 (4)	HA-80 (6)
Pontiac 6.....(1927)	GB-198 (2)	GC-211 (2)	GD-182 (2)	None	GF-136 (4)	GG-188 (2)	GH-140 (4)	GJ-64 (4)	HA-80 (6)
Pontiac 6.....(1928)	GB-199 (2)	GC-212 (1)	GD-183 (1)	None	GF-136 (4)	GG-189 (1)	GH-140 (4)	GJ-64 (4)	HA-190 (1)
Pontiac Big 6.....(1929-30)	GB-199 (2)	GC-213 (1)	GD-184 (1)	None	GF-136 (4)	GG-190 (1)	GH-140 (4)	GJ-64 (4)	HA-191 (1)
Reo T6.....(1925)	GB-200 (2)	GC-214 (2)	GD-185 (2)	GEA-135 (2)	GF-137 (2)	GG-191 (2)	GH-141 (2)	None	HA-21 (9)
Reo T6.....(1926)	GB-200 (2)	GC-214 (2)	GD-185 (2)	GEA-135 (2)	GF-137 (2)	GG-191 (2)	GH-141 (2)	None	HA-21 (9)

FOOTNOTE: *For corresponding Whitney chain numbers see page 211.*

Digitized by Google

ENGINE ASSEMBLY, Section 2—Continued

Car Make and Model	Cylinder Head	Crankcase (Oil Pan)	Camshaft	Camshaft or Eccentric Shaft Front Bushing	Camshaft Gear or Sprocket	Crankshaft	Crankshaft Gear or Sprocket	Timing Chain (See Footnote)	Muffler
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Reo Flying Cloud.....(1927)	GB-201 (3)	GC-215 (2)	GD-186 (3)	GEA-136 (3)	GF-138 (3)	GG-192 (1)	GH-142 (3)	GJ-65 (18)	HA-9 (15)
Reo Wolverine, Cont. 15-E....(1927)	GB-202 (2)	GC-216 (3)	GD-187 (2)	GEA-137 (3)	GF-139 (2)	GG-193 (2)	GH-132 (3)	GJ-27 (3)	HA-8 (7)
Reo Flying Cloud.....(1928)	GB-201 (3)	GC-215 (2)	GD-186 (3)	GEA-136 (3)	GF-138 (3)	GG-194 (2)	GH-142 (3)	GJ-27 (18)	HA-9 (15)
Reo Wolverine, Cont. 15-E....(1928)	GB-202 (2)	GC-216 (3)	GD-187 (2)	GEA-137 (3)	GF-139 (3)	GG-193 (2)	GH-132 (3)	GJ-65 (3)	HA-8 (7)
Reo Master.....(1929-30)	GB-201 (3)	GC-217 (1)	GD-186 (3)	GEA-137 (3)	GF-138 (3)	GG-194 (2)	GH-142 (3)	GJ-65 (3)	HA-8 (7)
Reo Mate, Cont. 16-C.....(1929-30)	GB-203 (1)	GC-216 (3)	GD-188 (1)	GEA-136 (3)	GF-139 (3)	GG-195 (1)	GH-132 (3)	GJ-27 (18)	HA-215 (1)
Rickenbacker A8.....(1925)	GB-205 (2)	GC-219 (2)	GD-191 (2)	GEA-138 (4)	GF-141 (2)	GG-197 (2)	GH-145 (4)	GJ-66 (2)	HA-194 (1)
Rickenbacker D6.....(1925)	GB-206 (3)	GC-220 (3)	GD-192 (3)	GEA-138 (4)	GF-142 (3)	GG-198 (3)	GH-144 (2)	GJ-67 (2)	HA-195 (1)
Rickenbacker 8-B.....(1926)	GB-207 (2)	GC-221 (2)	GD-193 (2)	GEA-139 (2)	GF-141 (2)	GG-199 (2)	GH-145 (4)	GJ-66 (2)	HA-196 (3)
Rickenbacker 6-E.....(1926)	GB-206 (3)	GC-220 (3)	GD-192 (3)	GEA-138 (4)	GF-142 (3)	GG-198 (3)	GH-144 (2)	GJ-68 (3)	HA-197 (1)
Rickenbacker 6-70.....(1927)	GB-206 (3)	GC-220 (3)	GD-192 (3)	GEA-140 (1)	GF-142 (3)	GG-198 (3)	GH-146 (1)	GJ-68 (3)	HA-198 (1)
Rickenbacker 8-80.....(1927)	GB-205 (2)	GC-219 (2)	GD-191 (2)	GEA-138 (4)	GF-143 (2)	GG-197 (2)	GH-145 (4)	GJ-67 (2)	HA-199 (1)
Rickenbacker 8-90.....(1927)	GB-207 (2)	GC-221 (2)	GD-193 (2)	GEA-139 (2)	GF-143 (2)	GG-199 (2)	GH-145 (4)	GJ-68 (3)	HA-200 (1)
Roamer 4-75-E.....(1925)	GA-208 (2)	GC-222 (2)	GD-194 (2)	GEA-141 (2)	GF-144 (2)	GG-200 (2)	GH-60 (2)	None	HA-201 (2)
Roamer 6-54-E, Cont. 9-N.....(1925)	GA-209 (2)	GC-223 (2)	GD-195 (2)	GEA-142 (2)	GF-145 (2)	GG-201 (2)	GH-147 (2)	GJ-1 (10)	HA-9 (15)
Roamer 4-75-E.....(1926)	GA-208 (2)	GC-222 (2)	GD-194 (2)	GEA-141 (2)	GF-144 (2)	GG-200 (2)	GH-60 (2)	None	HA-201 (2)
Roamer 6-50, Cont. 7-U.....(1925-26)	GB-2 (7)	GC-2 (7)	GD-2 (7)	GEA-2 (7)	GF-2 (7)	GG-2 (6)	GH-2 (11)	GJ-1 (10)	HA-202 (1)
Roamer 8-88, Lyc. H.....(1925-26)	GB-87 (7)	GC-96 (2)	GD-79 (2)	GEA-14 (2)	GF-56 (2)	GG-83 (2)	GH-5 (35)	GJ-2 (17)	HA-204 (3)
Roamer 6-54-E.....(1926)	GA-209 (2)	GC-223 (2)	GD-195 (2)	GEA-142 (2)	GF-145 (2)	GG-201 (2)	GH-147 (2)	GJ-1 (10)	HA-9 (15)
Roamer 8-80, Lyc. 4HM.....(1926)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-3 (33)	HA-203 (6)
Roamer 8-78, Lyc. GT.....(1927)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-12 (7)	GF-10 (28)	GG-10 (9)	GH-10 (9)	GJ-5 (33)	HA-204 (3)
Roamer 8-80, Lyc. 4HM.....(1927)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-6 (33)	HA-203 (6)
Roamer 8-88, Lyc. 4H.....(1927)	GB-88 (4)	GC-97 (4)	GD-8 (15)	GEA-60 (4)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-5 (33)	HA-204 (3)
Roamer 8-78, Lyc. GT.....(1928)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-12 (7)	GF-10 (28)	GG-10 (9)	GH-10 (9)	GJ-6 (33)	HA-205 (2)
Roamer 8-80, Lyc. 4HM.....(1928)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-5 (33)	HA-203 (6)
Roamer 8-88, Lyc. 4H.....(1928)	GB-88 (4)	GC-97 (4)	GD-8 (15)	GEA-60 (4)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-2 (17)	HA-203 (6)
Roamer 8-78, Lyc. GT.....(1929)	GB-10 (9)	GC-10 (9)	GD-10 (8)	GEA-12 (7)	GF-10 (28)	GG-10 (9)	GH-10 (9)	GJ-5 (33)	HA-205 (2)
Roamer 8-80, Lyc. 4HM.....(1929)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-8 (12)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-6 (33)	HA-203 (6)
Roamer 8-88, Lyc. 4H.....(1929)	GB-88 (4)	GC-97 (4)	GD-8 (15)	GEA-60 (4)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-2 (17)	HA-203 (6)
Rollin G.....(1925)	GB-210 (1)	GC-224 (1)	GD-196 (1)	GEA-143 (1)	GF-146 (1)	GG-202 (1)	GH-150 (1)	None	HA-206 (1)
Star F, Cont. W5.....(1925)	GB-84 (5)	GC-92 (4)	GD-77 (5)	GEA-57 (5)	GF-54 (5)	GG-80 (5)	GH-57 (5)	GJ-24 (18)	HA-208 (5)
Star M, Cont. W5.....(1926)	GB-84 (5)	GC-92 (4)	GD-77 (5)	GEA-57 (5)	GF-54 (5)	GG-80 (5)	GH-57 (5)	GJ-24 (18)	HA-208 (5)
Star R, Cont. 14-L.....(1926)	GB-83 (5)	GC-91 (6)	GD-76 (7)	GEA-45 (4)	GF-53 (7)	GG-79 (5)	GH-56 (7)	GJ-4 (10)	HA-208 (5)
Star M, Cont. W5.....(1927)	GB-84 (5)	GC-225 (1)	GD-77 (5)	GEA-57 (5)	GF-54 (5)	GG-80 (5)	GH-57 (5)	GJ-24 (18)	HA-208 (5)
Star R, Cont. 14-L.....(1927)	GB-83 (5)	GC-91 (6)	GD-76 (7)	GEA-45 (4)	GF-53 (7)	GG-79 (5)	GH-56 (7)	GJ-4 (10)	HA-208 (5)
Stearns Knight B.....(1925)	GB-213 (2)	GC-226 (2)	None	GEA-145 (2)	GF-147 (2)	GG-204 (2)	GH-152 (2)	††GJ-71 (2)	HA-209 (2)
Stearns Knight C.....(1925)	GB-214 (2)	GC-227 (2)	None	GEA-146 (1)	GF-148 (2)	GG-205 (2)	GH-153 (1)	‡‡GJ-69 (9)	HA-210 (4)
Stearns Knight S.....(1925)	GB-215 (2)	GC-228 (2)	None	GEA-144 (2)	GF-149 (2)	GG-206 (2)	GH-151 (1)	††GJ-69 (9)	HA-210 (4)
Stearns Knight B.....(1926)	GB-213 (2)	GC-226 (2)	None	GEA-145 (2)	GF-147 (2)	GG-204 (2)	GH-152 (2)	††GJ-71 (2)	HA-209 (2)
Stearns Knight C75.....(1926)	GB-214 (2)	GC-227 (2)	None	GEA-147 (1)	GF-148 (2)	GG-205 (2)	GH-155 (1)	‡‡GJ-69 (9)	HA-210 (4)
Stearns Knight S95.....(1926)	GB-215 (2)	GC-228 (2)	None	GEA-148 (1)	GF-149 (2)	GG-206 (2)	GH-154 (4)	††GJ-69 (9)	HA-210 (4)
Stearns Knight F6-85.....(1927)	GB-216 (2)	GC-229 (2)	None	GEA-149 (3)	GF-150 (2)	GG-207 (2)	GH-156 (2)	§§GJ-73 (9)	HA-211 (2)
Stearns Knight 8-85.....(1927)	GB-217 (1)	GC-230 (1)	None	GEA-150 (3)	GF-151 (1)	GG-208 (1)	GH-154 (4)	§§GJ-73 (1)	HA-212 (3)
Stearns Knight F6-85.....(1928)	GB-216 (2)	GC-229 (2)	None	GEA-149 (3)	GF-150 (2)	GG-207 (2)	GH-156 (2)	††GJ-69 (9)	HA-211 (2)
Stearns Knight H & J, 8-90....(1928)	GB-218 (2)	GC-231 (2)	None	GEA-150 (3)	GF-152 (2)	GG-209 (2)	GH-154 (4)	‡‡GJ-69 (9)	HA-212 (3)
Stearns Knight H & J, 8-90....(1929)	GB-218 (2)	GC-231 (2)	None	GEA-150 (3)	GF-152 (2)	GG-209 (2)	GH-154 (4)	§§GJ-73 (1)	HA-212 (3)
Stearns Knight MN, 6-80.....(1929)	GB-219 (1)	GC-232 (1)	None	GEA-149 (3)	GF-153 (1)	GG-210 (1)	GH-158 (1)	GJ-82 (10)	HA-213 (1)
Studebaker Big 6.....(1925)	GB-221 (4)	GC-234 (5)	GD-199 (6)	GEA-152 (8)	GF-155 (7)	GG-212 (5)	GH-160 (8)	None	HA-7 (19)
Studebaker Spec. 6.....(1925)	GB-222 (3)	GC-234 (5)	GD-199 (6)	GEA-152 (8)	GF-155 (7)	GG-212 (5)	GH-160 (8)	None	HA-7 (19)
Studebaker Std. 6.....(1925)	GB-223 (2)	GC-235 (3)	GD-200 (2)	GEA-153 (4)	GF-156 (6)	GG-213 (3)	GH-161 (3)	GJ-76 (5)	HA-86 (6)
Studebaker Big 6.....(1926)	GB-221 (4)	GC-234 (5)	GD-199 (6)	GEA-152 (7)	GF-155 (7)	GG-212 (5)	GH-160 (8)	None	HA-7 (19)
Studebaker Std. 6.....(1926)	GB-223 (2)	GC-235 (3)	GD-200 (2)	GEA-153 (4)	GF-156 (6)	GG-213 (3)	GH-161 (3)	GJ-76 (5)	HA-86 (6)
Studebaker Spec. 6.....(1926)	GB-222 (3)	GC-234 (5)	GD-199 (6)	GEA-152 (8)	GF-155 (7)	GG-212 (5)	GH-160 (8)	None	HA-7 (19)
Studebaker Big 6.....(1927)	GB-221 (4)	GC-236 (3)	GD-199 (6)	GEA-152 (8)	GF-155 (7)	GG-214 (2)	GH-160 (8)	None	HA-7 (19)
Studebaker Spec. 6.....(1927)	GB-222 (3)	GC-234 (5)	GD-199 (6)	GEA-152 (8)	GF-155 (7)	GG-212 (5)	GH-160 (8)	None	HA-7 (19)
Studebaker Std. 6.....(1927)	GB-224 (1)	GC-235 (3)	GD-201 (1)	GEA-153 (4)	GF-156 (6)	GG-213 (3)	GH-161 (3)	GJ-76 (5)	HA-86 (6)
Studebaker Com. 6.....(1928)	GB-221 (4)	GC-236 (3)	GD-202 (1)	GEA-152 (8)	GF-155 (7)	GG-214 (2)	GH-160 (8)	GJ-76	HA-7 (19)
Studebaker Dic. 6.....(1928)	GB-225 (2)	GC-237 (2)	GD-204 (3)	GEA-153 (4)	GF-156 (6)	GG-215 (2)	GH-163 (2)	GJ-76 (5)	HA-10 (5)
Studebaker Pres. 8.....(1928)	GB-226 (1)	GC-238 (1)	GD-203 (1)	GEA-152 (8)	GF-157 (2)	GG-216 (1)	GH-162 (2)	None	HA-7 (19)
Studebaker Com. 6.....(1929-30)	GB-227 (1)	GC-236 (3)	GD-204 (3)	GEA 154 (3)	GF-156 (6)	GG-217 (1)	GH-160 (8)	GJ-76	HA-10 (5)
Studebaker Com. 8.....(1929-30)	GB-228 (1)	GC-239 (1)	GD-205 (1)	GEA-154 (3)	GF-158 (1)	GG-218 (1)	GH-164 (1)	None	HA-7 (19)
Studebaker Dict. 6.....(1929)	GB-225 (2)	GC-237 (2)	GD-204 (3)	GEA-155 (2)	GF-156 (6)	GG-215 (2)	GH-163 (2)	GJ-76 (5)	HA-10 (5)
Studebaker Pres.....(1929-30)	GB-229 (1)	GC-240 (1)	GD-206 (1)	GEA-154 (3)	GF-157 (2)	GG-219 (1)	GH-162 (2)	None	HA-216 (1)
Stutz 695.....(1925)	GB-230 (1)	GC-241 (1)	GD-207 (1)	GEA-155 (2)	GF-159 (1)	GG-220 (1)	GH-165 (1)	GJ-29 (10)	HA-217 (1)
Stutz AA.....(1926)	GB-231 (2)	GC-242 (3)	GD-208 (3)	GEA-156 (2)	GF-160 (3)	GG-221 (3)	GH-166 (3)	‡‡GJ-77 (3)	HA-218 (2)
Stutz AA.....(1927)	GB-231 (2)	GC-242 (3)	GD-208 (3)	GEA-156 (2)	GF-160 (3)	GG-221 (3)	GH-166 (3)	‡‡GJ-77 (3)	HA-218 (2)
Stutz BB.....(1928)	GB-232 (1)	GC-242 (3)	GD-208 (3)	GEA-157 (1)	GF-160 (3)	GG-221 (3)	GH-166 (3)	‡‡GJ-77 (3)	HA-219 (1)
Stutz M.....(1929)	GB-233 (1)	GC-243 (1)	GD-209 (1)	GEA-158 (1)	GF-161 (1)	GG-222 (1)	GH-167 (1)	**GJ-7 (2)	HA-220 (1)
Velie 60.....(1925)	GB-234 (2)	GC-244 (3)	GD-210 (3)	GEA-159 (4)	GF-4 (8)	GG-223 (3)	GH-168 (5)	None	HA-221 (1)
Velie 60.....(1926)	GB-234 (2)	GC-244 (3)	GD-210 (3)	GEA-159 (4)	GF-4 (8)	GG-223 (3)	GH-168 (5)	None	HA-137 (4)
Velie Std. 50.....(1927-28)	GB-235 (1)¶	GC-245 (1)	GD-211 (1)	GEA-159 (4)	GF-4 (8)	GG-224 (1)	GH-4 (2)	None	HA-222 (2)
Velie Spec. 60.....(1927-28)	GB-236 (1)¶	GC-246 (2)	GD-212 (2)	GEA-159 (4)	GF-4 (8)	GG-225 (2)	GH-168 (5)	None	HA-223 (1)
Velie 6-66.....(1928)	GB-234 (2)	GC-244 (3)	GD-210 (3)	GEA-160 (2)	GF-4 (8)	GG-223 (3)	GH-168 (5)	None	HA-222 (2)
Velie 6-77.....(1928)	GB-236 (2)	GC-246 (2)	GD-212 (2)	GEA-160 (2)	GF-4 (8)	GG-225 (2)	GH-168 (5)	None	HA-137 (4)
Velie 8-88, Lyc. 4-HM.....(1928)	GB-8 (11)	GC-8 (11)	GD-8 (15)	GEA-15 (6)	GF-8 (26)	GG-8 (14)	GH-5 (35)	GJ-6 (19)	HA-224 (1)
Viking.....(1929)	GB-237 (1)	GC-247 (1)	GD-213 (1)	GEA-161 (1)	GF-162 (1)	GG-226 (1)	GH-170 (1)	GJ-69 (9)	HA-35 (1)
Westcott 44, Cont. 8-R.....(1925)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (16)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-56 (4)
Westcott 60, Cont. 8-R.....(1925)	GB-3 (8)	GC-3 (8)	GD-3 (8)	GEA-3 (16)	GF-3 (11)	GG-3 (8)	GH-3 (9)	None	HA-56 (4)
Whippet 96, 4 Cyl.....(1927)	GB-172 (2)	GC-181 (2)	GD-157 (2)	GEA-121 (3)	GF-115 (3)	GG-161 (2)	GH-122 (3)	GJ-57-86	HA-41 (5)
Whippet 93-A, 6 Cyl.....(1927)	GB-171 (3)	GC-182 (1)	GD-156 (3)	GEA-122 (3)	GF-114 (3)	GG-160 (3)	GH-121 (3)	None	HA-47 (4)
Whippet 96, 4 Cyl.....(1928)	GB-172 (2)	GC-181 (2)	GD-157 (2)	GEA-121 (3)	GF-115 (3)	GG-161 (2)	GH-122 (3)	GJ-57-86	HA-41 (5)
Whippet 98, 6 Cyl.....(1928)	GB-173 (1)	GC-183 (1)	GD-158 (1)	GEA-122 (3)	GF-116 (2)	GG-162 (1)	GH-123 (1)	GJ-57-86	HA-173 (3)
Whippet 96-A.....(1929)	GB-174 (1)	GC-184 (1)	GD-159 (1)	GEA-121 (3)	GF-115 (3)	GG-163 (1)	GH-122 (3)	GJ-58-88	HA-41 (5)
Whippet 98-A.....(1929-30)	GB-175 (1)	GC-185 (1)	GD-160 (1)	GEA-122 (3)	GF-116 (2)	GG-164 (1)	GH-124 (1)	GJ-58-88	HA-10 (5)
Wills Ste. Claire 8.....(1925)	GB-243 (2)	GC-252 (2)	GD-214 (2)	GEA-167 (2)	GF-169 (2)	GG-232 (2)	GH-176 (2)	None	HA-228 (2)
Wills Ste. Claire 6.....(1925-26)	GB-244 (1)	GC-253 (1)	GD-215 (1)	GEA-168 (1)	GF-170 (1)	GG-233 (1)	GH-175 (1)	None	HA-184 (6)
Wills Ste. Claire B-C 8.....(1926)	GB-243 (2)	GC-252 (2)	GD-214 (2)	GEA-167 (2)	GF-169 (2)	GG-232 (2)	GH-176 (2)	None	HA-228 (2)
Willys Knight 66.....(1925)	GB-238 (2)	GC-248 (2)	None	GEA-162 (1)	GF-163 (2)	GG-227 (2)	GH-172 (6)	GJ-78 (3)	HA-123 (3)
Willys Knight 65.....(1925)	GB-239 (1)	GC-249 (1)	None	GEA-163 (1)	GF-164 (1)	GG-228 (1)	GH-171 (1)	¶GJ-79 (3)	HA-225 (1)
Willys Knight 66.....(1926)	GB-238 (2)	GC-248 (2)	None	GEA-164 (7)	GF-163 (2)	GG-227 (2)	GH-172 (6)	GJ-29 (10)	HA-123 (3)
Willys Knight 70.....(1926)	GB-240 (4)	GC-250 (5)	None	GEA-164 (7)	GF-165 (4)	GG-229 (4)	GH-173 (4)	GJ-34 (4)	HA-173 (3)
Willys Knight 66-A.....(1927)	GB-241 (3)	GC-251 (3)	None	GEA-164 (7)	GF-166 (3)	GG-230 (3)	GH-172 (6)	GJ-29 (10)	HA-213 (2)
Willys Knight 70-A.....(1927)	GB-240 (4)	GC-250 (5)	None	GEA-164 (7)	GF-165 (4)	GG-229 (4)	GH-173 (4)	GJ-34 (3)	HA-173 (3)
Willys Knight 66-A.....(1928)	GB-241 (3)	GC-251 (3)	None	GEA-164 (7)	GF-166 (3)	GG-230 (3)	GH-172 (6)	GJ-29-82 (10)	HA-196 (3)
Willys Knight Std. 6-56.....(1928-29)	GB-242 (1)	GC-250 (5)	None	GEA-166 (2)	GF-165 (4)	GG-231 (1)	GH-173 (4)	GJ-35 (4)	HA-90 (3)
Willys Knight Spec. 6-70-A....(1928-29)	GB-240 (4)	GC-250 (5)	None	GEA-166 (2)	GF-165 (4)	GG-229 (4)	GH-173 (4)	GJ-35 (4)	HA-226 (1)
Willys Knight 66-A.....(1929)	GB-241 (3)	GC-251 (3)	None	GEA-164 (7)	GF-166 (3)	GG-230 (3)	GH-172 (6)	GJ-82 (4)	HA-196 (3)
Willys Knight 70-B.....(1929)	GB-240 (4)	GC-250 (5)	None	GEA-164 (7)	GF-168 (1)	GG-229 (4)	GH-174 (1)	GJ-35 (4)	HA-227 (1)
Willys 6.....(1930)	GB-254 (1)	GC-262 (1)	GD-225 (1)	GEA-181 (1)	GF-187 (1)	GG-245 (1)	GH-204 (1)	GJ-90 (1)	HA-238 (1)

Key to Abbreviations:—Ans. Anstead. Cont. Continental. Lyc. Lycoming.

*Generator Chain GJ-11. ‡Cylinder Only. **Accessory Chain GJ-8. ‡‡Accessory Chain GJ-72. ‡‡Accessory Chain GJ-83.
†Generator Chain GJ-14. §Integral with Cylinder. ††Accessory Chain GJ-70. §§Accessory Chain GJ-82. ¶Accessory Chain GJ-91.

FOOTNOTE: *For corresponding Whitney chain numbers see page 211.*

Digitized by Google

Engine Assembly—Section 3

Interchangeable Data on 25 Engine Parts for Passenger Cars from 1925 to 1930

ENGINE ASSEMBLY STARTS ON PAGE 202. READ DIRECTIONS THERE CAREFULLY

For Engine Parts Sizes, See Page 314

Car Make and Model	Oil Pump Gears	Valve Assembly: Inlet Valve	Valve Assembly: Exhaust Valve	Valve Assembly: Valve Stem Guide	Valve Assembly: Valve Springs	Valve Assembly: Valve Lifters (Tappets)	Valve Assembly: Valve Lifter Adjusting Screws	Flywheel Starter Gear (Ring Gear)
Interchangeable Parts Have the Same CHILTON NUMBER in any Column								
Ajax.....(1925-26)	GP-1 (4)	GR-1 (42)	GR-1 (3)	GS-1 (3)	GT-1 (4)	GU-1 (3)	GV-1 (11)	GW-1 (4)
Anderson 41, Cont. 7-U.(1925)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-2 (31)
Anderson 50, Cont. 8-R.(1925)	GP-3 (24)	GR-3 (7)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-3 (29)
Apperson 6.....(1925)	GP-4 (4)	GR-4 (3)	GR-4 (3)	GS-4 (2)	GT-4 (2)	GU-4 (3)	GV-2 (180)	GW-2 (31)
Apperson Str. 8, Lyc.2-H(1925)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-5 (5)	GV-2 (180)	GW-5 (74)
Apperson 6.....(1926)	GP-4 (4)	GR-4 (3)	GR-4 (3)	GS-4 (2)	GT-4 (2)	GU-4 (3)	GV-2 (180)	GW-2 (31)
Apperson Str. 8, Lyc.2-H(1926)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-5 (5)	GV-2 (180)	GW-5 (74)
Auburn 4, Lyc.CF.....(1925)	GP-6 (64)	GR-6 (5)	GR-6 (5)	GS-6 (5)	GT-5 (32)	GU-6 (4)	GV-2 (180)	GW-5 (74)
Auburn 6-43, Cont.7-U..(1925)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-2 (31)
Auburn 8-88, Lyc.2-H...(1925)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-5 (5)	GV-2 (180)	GW-5 (74)
Auburn 4-44, Lyc. CF...(1926)	GP-6 (64)	GR-6 (5)	GR-6 (5)	GS-6 (5)	GT-5 (32)	GU-4 (3)	GV-2 (180)	GW-5 (74)
Auburn 6-66, Lyc. 4-SM.(1926)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Auburn 8-88, Lyc.4-HM.(1926)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Auburn 6-66A, Cont.28-L(1927)	GP-5 (18)	GQ-2 (16)	GR-7 (16)	GS-2 (57)	GT-6 (18)	GU-2 (35)	GV-2 (180)	GW-6 (8)
Auburn 8-88, Lyc.4-HM.(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Auburn 8-77, Lyc. GT...(1927)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Auburn 76, Lyc. WS.....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Auburn 88, Lyc. GS.....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Auburn 115, Lyc. 4-MD.(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-7 (24)	GU-12 (1)	GV-2 (180)	GW-5 (74)
Auburn 6-80, Lyc. WR..(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-10 (2)	GU-13 (2)	GV-2 (180)	GW-5 (74)
Auburn 8-90, Lyc. GR...(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-10 (2)	GU-13 (2)	GV-2 (180)	GW-5 (74)
Auburn 120, Lyc. MDA.(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-11 (2)	GU-14 (1)	GV-2 (180)	GW-5 (74)
Blackhawk L6.....(1929)	GP-7 (1)	GQ-4 (1)	GQ-4 (1)	GS-138 (1)	GT-12 (4)	GU-15 (1)	GV-4 (1)	GW-9 (6)
BlackhawkL 8, Cont. 16-S(1929)	GP-8 (1)	GQ-5 (1)	GR-10 (1)	GS-8 In. (5) GS-7 Ex. (5)	GT-12 (4)	GV-16 (1)	GV-5 (1)	GW-10 (1)
Buick Master.....(1925)	GP-9 (9)	GQ-6 (3)	GR-11 (3)	GS-9 (5)	GT-14 (7)	GU-17 (2)	GV-6 (26)	GW-11 (7)
Buick Std.....(1925)	GP-9 (9)	GR-12 (2)	GR-12 (2)	GS-10 (1)	GT-14 (7)	GU-17 (2)	GV-6 (26)	GW-12 (29)
Buick Master.....(Early 1926)	GP-9 (9)	GQ-6 (3)	GR-11 (3)	GS-9 In. (5) GS-11 Ex. (4)	GT-14 (7)	GU-18 (5)	GV-6 (26)	GW-12 (29)
Buick Master.....(Late 1926)	GP-9 (9)	GQ-6 (3)	GR-11 (3)	GS-9 In. (5) GS-11 Ex. (4)	GT-14 (7)	GU-18 (5)	GV-6 (26)	GW-12 (29)
Buick Std.....(1926)	GP-9 (9)	GR-12 (2)	GR-12 (2)	GS-132 In. (3) GS-12 Ex. (3)	GT-14 (7)	GU-18 (5)	GV-6 (26)	GW-11 (7)
Buick 115.....(1927)	GP-9 (9)	GR-13 (2)	GR-13 (2)	GS-132 In. (3) GS-12 Ex. (3)	GT-14 (7)	GU-18 (5)	GV-6 (26)	GW-11 (7)
Buick 120, 128.....(1927)	GP-9 (9)	GQ-7 (2)	GR-14 (2)	GS-9 In. (5) GS-11 Ex. (4)	GT-14 (7)	GU-18 (5)	GV-6 (26)	GW-12 (29)
Buick 115.....(1928)	GP-9 (9)	GR-13 (2)	GR-13 (2)	GS-132 In. (3) GS-12 Ex. (3)	GT-15 (1)	GU-19 (4)	GV-6 (26)	GW-11 (7)
Buick 120, 128.....(1928)	GP-9 (9)	GQ-7 (2)	GR-14 (2)	GS-9 In. (5) GS-11 Ex. (4)	GT-13 (3)	GU-19 (4)	GV-6 (26)	GW-12 (29)
Buick 116.....(1929)	GP-10 (2)	GR-15 (1)	GR-15 (1)	GS-133 In. (1) GS-13 Ex. (1)	GT-13 (3)	GU-19 (4)	GV-6 (26)	GW-14 (2)
Buick 121, 129.....(1929)	GP-10 (2)	GQ-8 (1)	GR-16 (1)	GS-134 In. (2) GS-14 Ex. (1)	GT-13 (3)	GU-19 (4)	GV-6 (26)	GW-14 (2)
Cadillac V63.....(1925)	GP-11 (1)	GR-17 (4)	GR-17 (1)	GS-15 (1)	GT-16 (1)	GU-20 (1)	GV-7 (26)	GW-16 (1)
Cadillac 314.....(1926)	GP-12 (1)	GR-17 (4)	GR-18 (3)	GS-16 (2)	GT-17 (2)	GU-21 (7)	GV-8 (25)	GW-17 (11)
Cadillac 314.....(1927)	GP-13 (6)	GR-17 (4)	GR-18 (3)	GS-16 (2)	GT-17 (2)	GU-21 (7)	GV-8 (25)	GW-17 (11)
Cadillac 341-A.....(1928)	GP-13 (6)	GQ-9 (4)	GR-19 (4)	GS-17 (5)	GT-18 (5)	GU-21 (7)	GV-8 (25)	GW-17 (11)
Cadillac 341-B.....(1929)	GP-13 (6)	GR-17 (4)	GR-18 (3)	GS-17 (5)	GT-18 (5)	GU-21 (7)	GV-8 (25)	GW-17 (11)
Case JIC, Cont. 8-R....(1925)	GP-3 (24)	GR-3 (7)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-3 (28)
Case X, Cont. 8-R.....(1925)	GP-3 (24)	GR-3 (7)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-3 (28)
Case Y, Cont. 6-T.....(1925)	GP-2 (29)	GR-20 (6)	GR-20 (5)	GS-18 (4)	GT-3 (16)	GU-3 (31)	GV-9 (4)	GW-3 (28)
Case JIC, Cont. 8-R....(1926)	GP-3 (24)	GR-3 (7)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-3 (28)
Case Y, Cont. 6-J.....(1926)	GP-2 (29)	GR-20 (6)	GR-20 (5)	GS-18 (4)	GT-19 (3)	GU-3 (31)	GV-9 (4)	GW-3 (28)
Chandler 33.....(1925)	GP-14 (6)	GR-21 (4)	GR-21 (4)	GS-19 (4)	GT-21 (8)	GU-23 (4)	GV-2 (180)	GW-18 (4)
Chandler 35.....(1926)	GP-14 (6)	GR-21 (4)	GR-21 (4)	GS-19 (4)	GT-21 (8)	GU-23 (4)	GV-2 (180)	GW-18 (4)
Chandler Big 6.....(1927)	GP-14 (6)	GR-21 (4)	GR-21 (4)	GS-19 (4)	GT-21 (8)	GU-23 (4)	GV-2 (180)	GW-18 (4)
Chandler Royal 8.....(1927)	GP-14 (6)	GQ-10 (2)	GR-22 (2)	GS-20 (4)	GT-21 (8)	GU-24 (2)	GV-2 (180)	GW-15 (2)
Chandler Spec. 6.....(1927)	GP-15 (5)	GR-23 (3)	GR-23 (3)	GS-21 (3)	GT-20 (1)	GU-25 (3)	GV-2 (180)	GW-19 (6)
Chandler Std. 6.....(1927)	GP-16 (3)	GR-24 (5)	GR-24 (5)	GS-22 (3)	GT-22 (5)	GU-26 (5)	GV-2 (180)	GW-20 (5)
Chandler Big 6.....(1928)	GP-14 (6)	GR-21 (4)	GR-21 (4)	GS-19 (4)	GT-21 (8)	GU-23 (4)	GV-2 (180)	GW-18 (4)
Chandler Royal 8.....(1928)	GP-14 (6)	GQ-10 (2)	GR-22 (2)	GS-20 (4)	GT-21 (8)	GU-24 (2)	GV-2 (180)	GW-15 (2)
Chandler Spec. 6.....(1928)	GP-15 (5)	GR-24 (5)	GR-24 (5)	GS-21 (3)	GT-22 (5)	GU-26 (5)	GV-2 (180)	GW-19 (6)
Chandler Spec. In. 6....(1928)	GP-15 (5)	GR-24 (5)	GR-24 (5)	GS-21 (3)	GT-22 (5)	GU-26 (5)	GV-2 (180)	GW-19 (6)
Chevrolet K.....(1925)	GP-17 (1)	GR-25 (3)	GR-25 (3)	None	GT-23 (4)	GU-27 (2)	GV-11 (9)	GW-21 (19)
Chevrolet V.....(1926)	GP-18 (4)	GR-25 (3)	GR-25 (3)	None	GT-23 (4)	GU-27 (2)	GV-11 (9)	GW-21 (19)
Chevrolet AA.....(1927)	GP-18 (4)	GR-25 (3)	GR-25 (3)	None	GT-23 (4)	GU-28 (1)	GV-11 (9)	GW-21 (19)
Chevrolet AB.....(1928)	GP-18 (4)	GR-26 (1)	GR-26 (1)	None	GT-8 (2)	GU-29 (1)	GV-11 (9)	GW-21 (19)
Chevrolet AC.....(1929)	GP-18 (4)	GR-27 (1)	GR-27 (1)	GS-134 (2)	GT-24 (1)	GU-30 (1)	GV-12 (1)	GW-22 (1)
Chrysler 6-B.....(1925)	GP-19 (2)	GR-28 (3)	GR-28 (3)	GS-139 In. (6) GS-23 Ex. (6)	GT-25 (5)	GU-31 (9)	GV-2 (180)	GW-23 (7)
Chrysler 58.....(1926)	GP-20 (5)	GR-29 (5)	GR-29 (5)	GS-24 (5)	GT-26 (4)	GU-32 (5)	GV-2 (180)	GW-24 (9)
Chrysler 70.....(1926)	GP-22 (2)	GR-28 (3)	GR-28 (3)	GS-139 In. (6) GS-23 Ex. (6)	GT-25 (5)	GU-31 (9)	GV-13 (12)	GW-23 (7)
Chrysler 80.....(1926)	GP-21 (4)	GR-30 (1)	GR-30 (4)	GS-140 In. (4) GS-25 Ex. (4)	GT-28 (4)	GU-33 (4)	GV-13 (12)	GW-25 (13)
Chrysler 50.....(1927)	GP-20 (5)	GR-29 (5)	GR-29 (5)	GS-24 (5)	GT-26 (4)	GU-32 (5)	GV-2 (180)	GW-24 (9)
Chrysler 60.....(1927)	GP-19 (2)	GR-31 (2)	GR-31 (3)	GS-139 In. (6) GS-23 Ex. (6)	GT-27 (3)	GU-31 (9)	GV-13 (12)	GW-26 (12)
Chrysler 70.....(1927)	GP-22 (2)	GR-28 (3)	GR-28 (3)	GS-139 In. (6) GS-23 Ex. (6)	GT-25 (5)	GU-31 (9)	GV-13 (12)	GW-23 (7)
Chrysler 80.....(1927)	GP-21 (4)	GQ-11 (1)	GR-30 (4)	GS-140 In. (4) GS-25 Ex. (4)	GT-28 (4)	GU-33 (4)	GV-13 (12)	GW-25 (13)
Chrysler 52.....(1928)	GP-20 (5)	GR-29 (5)	GR-29 (5)	GS-24 (5)	GT-26 (4)	GU-32 (5)	GV-2 (180)	GW-24 (9)
Chrysler 62.....(1928)	GP-29 (2)	GR-31 (2)	GR-31 (3)	GS-139 In. (6) GS-23 Ex. (6)	GT-27 (3)	GU-31 (9)	GV-13 (12)	GW-26 (12)
Chrysler 72.....(1928)	GP-29 (2)	GQ-13 (2)	GR-32 (2)	GS-141 In. (2) GS-26 Ex. (2)	GT-25 (5)	GU-31 (9)	GV-13 (12)	GW-23 (7)
Chrysler Imp. 80.....(1928)	GP-21 (4)	GQ-14 (2)	GR-30 (4)	GS-140 In. (4) GS-25 Ex. (4)	GT-28 (4)	GU-33 (4)	GV-13 (12)	GW-25 (13)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many tim es that CHILTON NUMBER appears in that column.

Digitized by Google

ENGINE ASSEMBLY, Section 3—Continued

Car Make and Model	Oil Pump Gears	Valve Assembly: Inlet Valve	Exhaust Valve	Valve Stem Guide	Valve Springs	Valve Lifters (Tappets)	Valve Lifter Adjusting Screws	Flywheel Starter Gear (Ring Gear)
Interchangeable Parts Have the Same CHILTON NUMBER in any Column								
Chrysler 65.....(1929)	GP-61 (4)	GQ-12 (1)	GR-31 (3)	GS-139 In. (6) / GS-23 Ex. (6)	GT-27 (3)	GU-31 (9)	GV-13 (12)	GW-26 (12)
Chrysler 75.....(1929)	GP-61 (4)	GQ-13 (2)	GR-32 (2)	GS-141 In. (2) / GS-26 Ex. (2)	GT-25 (5)	GU-31 (9)	GV-13 (12)	GW-23 (7)
Chrysler Imp. 80.....(1929)	GP-21 (4)	GQ-14 (2)	GR-30 (4)	GS-140 In. (4) / GS-25 Ex. (4)	GT-28 (4)	GU-33 (4)	GV-13 (12)	GW-25 (13)
Cleveland 31.....(1925)	GP-16 (3)	GR-24 (5)	GR-24 (5)	GS-22 (3)	GT-22 (5)	GU-26 (5)	GV-10 (4)	GW-19 (6)
Cleveland 43.....(1925)	GP-15 (5)	GR-23 (3)	GR-23 (3)	GS-20 (4)	GT-21 (8)	GU-25 (3)	GV-10 (4)	GW-20 (3)
Cleveland 31.....(1926)	GP-16 (3)	GR-24 (5)	GR-24 (5)	GS-22 (3)	GT-22 (5)	GU-26 (5)	GV-10 (4)	GW-19 (6)
Cleveland 43.....(1926)	GP-15 (5)	GR-23 (3)	GR-23 (3)	GS-20 (4)	GT-21 (8)	GU-25 (3)	GV-10 (4)	GW-20 (3)
Cole, Master.....(1925)	GP-23 (1)	GR-34 (1)	GR-34 (1)	GS-135 (1)	GT-29 (1)	GU-34 (1)	GV-7 (26)	GW-27 (1)
Davis 90, Cont. 7-U....(1925)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-2 (31)
Davis 91, Cont. 8-R....(1925)	GP-3 (24)	GR-3 (7)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-3 (28)
Davis 92, Cont. 11-U....(1926)	GP-2 (29)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-32 (16)	GU-37 (2)	GV-16 (2)	GW-2 (31)
Davis 93, Cont. 20-L....(1926)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-6 (13)	GU-2 (35)	GV-17 (1)	GW-6 (3)
Davis 92, Cont. 11-U...(1927)	GP-2 (29)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-32 (16)	GU-37 (2)	GV-16 (2)	GW-2 (31)
Davis 94, Cont. 28-L...(1927)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-6 (13)	GU-2 (35)	GV-2 (180)	GW-6 (3)
Davis 98, Cont. 8-S.....(1927)	GP-46 (7)	GQ-16 (7)	GR-37 (8)	GS-32 (9)	GT-33 (9)	GU-3 (31)	GV-7 (26)	GW-21 (19)
Davis 99, Cont. 14-S....(1928)	GP-46 (7)	GQ-16 (7)	GR-37 (8)	GS-2 (57)	GT-33 (9)	GU-3 (31)	GV-7 (26)	GW-21 (19)
De Soto.....(1929)	GP-61 (4)	GR-38 (1)	GR-38 (1)	GS-34 (1)	GT-34 (1)	GU-31 (9)	GV-13 (12)	GW-26 (12)
Diana Str. 8, Cont. 12-Z(1926)	GP-5 (18)	GQ-17 (3)	GR-39 (3)	GS-2 (57)	GT-6 (13)	GU-2 (35)	GV-7 (26)	GW-2 (31)
Diana Str. 8, Cont. 12-Z(1927)	GP-5 (18)	GQ-17 (3)	GR-39 (3)	GS-2 (57)	GT-6 (13)	GV-2 (35)	GV-7 (26)	GW-2 (31)
Diana Str. 8, Cont. 12-Z(1928)	GP-5 (18)	GQ-17 (3)	GR-39 (3)	GS-2 (57)	GT-6 (13)	GU-2 (35)	GV-7 (26)	GW-2 (31)
Dodge Brothers 4.....(1925)	GP-27 (3)	GR-40 (3)	GR-40 (3)	GS-35 (3)	GT-35 (3)	GU-39 (3)	GV-2 (180)	GW-11 (7)
Dodge Brothers 4.....(1926)	GP-27 (3)	GR-40 (3)	GR-40 (3)	GS-35 (3)	GT-35 (3)	GU-39 (3)	GV-2 (180)	GW-11 (7)
Dodge Brothers 4.....(1927-28)	GP-27 (3)	GR-40 (3)	GR-40 (3)	GS-35 (3)	GT-35 (3)	GU-39 (3)	GV-2 (180)	GW-11 (7)
Dodge Brothers Senior..(1928)	GP-28 (8)	GQ-18 (2)	GR-41 (2)	GS-36 (2)	GT-37 (7)	GU-40 (2)	GV-18 (2)	GW-23 (7)
Dodge Std. 6.....(1928)	GP-28 (8)	GQ-19 (3)	GR-42 (3)	GS-37 (3)	GT-36 (3)	GU-41 (3)	GV-19 (3)	GW-30 (4)
Dodge Brothers Vic. 6..(1928-29)	GP-28 (8)	GQ-19 (3)	GR-42 (3)	GS-37 (3)	GT-36 (3)	GU-41 (3)	GV-19 (3)	GW-30 (4)
Dodge Brothers Senior..(1929)	GP-28 (8)	GQ-18 (2)	GR-41 (2)	GS-36 (2)	GT-37 (7)	GU-40 (2)	GV-18 (2)	GW-23 (7)
Dodge Brothers DA6...(1929)	GP-28 (8)	GQ-19 (3)	GR-42 (3)	GS-37 (3)	GT-36 (3)	GU-41 (3)	GV-19 (3)	GW-30 (4)
du Pont D, Wisc. Y.....(1925)	GP-98 (5)	GR-46 (5)	GR-46 (5)	GS-41 (5)	GT-40 (5)	GU-44 (5)	GV-8 (25)	GW-31 (6)
du Pont D, Wisc. Y.....(1926)	GP-98 (5)	GR-46 (5)	GR-46 (5)	GS-41 (5)	GT-40 (5)	GU-44 (5)	GV-8 (25)	GW-31 (6)
du Pont E, Wisc. Y.....(1927)	GP-98 (5)	GR-46 (5)	GR-46 (5)	GS-41 (5)	GT-40 (5)	GU-44 (5)	GV-8 (25)	GW-31 (6)
du Pont E, F, Wisc. Y..(1928)	GP-98 (5)	GR-46 (5)	GR-46 (5)	GS-41 (5)	GT-40 (5)	GU-44 (5)	GV-8 (25)	GW-31 (6)
du Pont E, Wisc. Y.....(1929)	GP-98 (5)	GR-46 (5)	GR-46 (5)	GS-41 (5)	GT-40 (5)	GU-44 (5)	GV-8 (25)	GW-31 (6)
du Pont G, Cont. 12-K..(1929)	GP-32 (5)	GQ-22 (5)	GR-47 (5)	GS-42 (5)	GT-37 (7)	GU-45 (4)	GV-22 (5)	GW-13 (7)
Durant A22, Cont. Spec.(1925)	GP-33 (1)	GR-48 (1)	GR-48 (1)	GS-27 In. (1) / GS-43 Ex. (1)	GT-23 (4)	GU-46 (1)	GV-11 (9)	GW-32 (11)
Durant D55, Cont. 14-L.(1928)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-41 (6)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Durant 65, Cont. 15-L..(1928)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-41 (6)	GU-2 (35)	GV-2 (180)	GW-17 (11)
Durant M2.....(1928-29)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Durant 75, Cont. 15-U..(1928-29)	GP-3 (24)	GQ-23 (8)	GR-49 (7)	GS-2 (57)	GT-32 (16)	GU-47 (1)	GV-2 (180)	GW-33 (21)
Durant 4-40, Cont. W5..(1929)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Durant 6-60, Cont. 14-L.(1929)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-41 (6)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Durant 66, Cont. 15-L..(1929)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-41 (6)	GU-2 (35)	GV-2 (180)	GW-17 (11)
Durant 70, Cont. 20-E..(1929)	GP-3 (24)	GQ-24 (9)	GR-50 (11)	GS-2 (57)	GT-32 (16)	GU-48 (1)	GV-2 (180)	GW-7 (1)
Elcar 4-40, Lyc. CF.....(1925)	GP-6 (64)	GR-6 (5)	GR-6 (5)	GS-6 (5)	GT-5 (32)	GU-6 (4)	GV-2 (180)	GW-5 (74)
Elcar 6-50, Cont. 7-U...(1925)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-2 (31)
Elcar 6-60, Cont. 8-R...(1925)	GP-3 (24)	GR-3 (27)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-3 (28)
Elcar 8-80, Lyc. H.....(1925)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-7 (5)	GV-2 (180)	GW-5 (74)
Elcar 6-65, Lyc. 4-SM ..(1926)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-23 (1)	GW-5 (74)
Elcar 8-81, Lyc. 4-H....(1926)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-7 (5)	GV-2 (180)	GW-5 (74)
Elcar 4-55, Lyc. CF, CE(1926-27)	GP-6 (64)	GR-6 (5)	GR-6 (5)	GS-6 (5)	GT-5 (32)	GU-6 (4)	GV-2 (180)	GW-5 (74)
Elcar 6-70, Lyc. WT....(1927)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Elcar 8-82, Lyc. GT....(1927)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Elcar 8-90, Lyc. 4-HM..(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (30)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Elcar 6-70, Lyc. WS....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Elcar 8-78, Lyc. GT....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Elcar 8-91, Lyc. 4-HM..(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (30)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Elcar 8-120, Lyc. MD...(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (30)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Elcar 8-82, Lyc. GS ....(1928-29)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Elcar 75, Lyc. WS.....(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Elcar 95, 96, Lyc. GS...(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Elcar 8-120, Lyc. MD...(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (30)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Erskine 50, Cont. 8-F..(1927)	GP-34 (7)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-32 (16)	GU-50 (1)	GV-8 (25)	GW-34 (3)
Erskine 6, 51, Cont. 9-F(1928)	GP-34 (7)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-32 (16)	GU-50 (1)	GV-8 (25)	GW-34 (3)
Erskine 52, Cont. 9-F...(1929)	GP-34 (7)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-32 (16)	GU-50 (1)	GV-8 (25)	GW-34 (3)
Essex 6.....(1925)	None	GR-53 (5)	GR-53 (5)	GS-46 (5)	GT-44 (5)	GU-52 (2)	GV-8 (25)	GW-35 (5)
Essex 6.....(1926)	None	GR-53 (5)	GR-53 (5)	GS-46 (5)	GT-44 (5)	GU-52 (2)	GV-8 (25)	GW-35 (5)
Essex Super 6.....(1927)	None	GR-53 (5)	GR-53 (5)	GS-46 (5)	GT-44 (5)	GU-53 (3)	GV-8 (25)	GW-36 (3)
Essex Super 6.....(1928)	None	GR-53 (5)	GR-53 (5)	GS-46 (5)	GT-44 (5)	GU-53 (3)	GV-8 (25)	GW-36 (3)
Essex Challenger.....(1929)	None	GR-53 (5)	GR-53 (5)	GS-46 (5)	GT-44 (5)	GU-53 (3)	GV-8 (25)	GW-36 (3)
Falcon Knight 10.....(1927)	GP-35 (2)	None	None	None	None	None	None	GW-37 (10)
Falcon Knight 12.....(1928)	GP-35 (2)	None	None	None	None	None	None	GW-37 (10)
Flint B40, Cont. 7-U....(1925-26)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-2 (31)
Flint E55, Cont. 6-E....(1925-26)	GP-3 (24)	GR-54 (3)	GR-54 (3)	GS-47 (3)	GT-3 (16)	GU-54 (3)	GV-3 (20)	GW-32 (11)
Flint B60, Cont. 14-U...(1926)	GP-3 (24)	GQ-23 (8)	GR-49 (7)	GS-2 (57)	GT-6 (13)	GU-54 (3)	GV-3 (20)	GW-2 (31)
Flint E80, Cont. 6-E....(1926)	GP-3 (24)	GR-54 (3)	GR-54 (3)	GS-47 (3)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-32 (11)
Flint Jr., Cont. 9-L.....(1926)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-6 (13)	GU-2 (35)	GV-2 (180)	GW-17 (11)
Flint 60, Cont. 14-U.....(1927)	GP-3 (24)	GQ-23 (8)	GR-49 (7)	GS-2 (57)	GT-6 (13)	GU-54 (3)	GV-3 (20)	GW-2 (31)
Flint 80, Cont. 6-E.....(1927)	GP-3 (24)	GR-54 (3)	GR-54 (3)	GS-47 (3)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-32 (11)
Flint Jr., Cont. 9-L.....(1927)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-6 (13)	GU-2 (35)	GV-2 (180)	GW-17 (11)
Ford T.....(1925)	None	GR-55 (3)	GR-55 (3)	None	GT-45 (3)	GU-55 (3)	None	GW-38 (3)
Ford T.....(1926)	None	GR-55 (3)	GR-55 (3)	None	GT-45 (3)	GU-55 (3)	None	GW-38 (3)
Ford T.....(1927)	None	GR-55 (3)	GR-55 (3)	None	GT-45 (3)	GU-55 (3)	None	GW-38 (3)
Ford A.....(1928)	GP-36 (2)	GR-56 (2)	GR-56 (2)	GS-50 (2)	GT-46 (2)	GU-56 (2)	None	GW-39 (2)
Ford A.....(1929)	GP-36 (2)	GR-56 (2)	GR-56 (2)	GS-50 (2)	GT-46 (2)	GU-56 (2)	None	GW-39 (2)
Franklin 11.....(1925)	GP-37 (3)	GR-57 (3)	GR-57 (3)	GS-51 (6)	GT-47 (3)	GU-57 (6)	GV-24 (6)	GW-40 (8)
Franklin 11.....(1926)	GP-37 (3)	GR-57 (3)	GR-57 (3)	GS-51 (6)	GT-47 (3)	GU-57 (6)	GV-24 (6)	GW-40 (8)
Franklin 11-B.....(1927-28)	GP-37 (3)	GR-57 (3)	GR-57 (3)	GS-51 (6)	GT-47 (3)	GU-57 (6)	GV-24 (6)	GW-40 (8)
Franklin Ser. 12.....(1927-28)	GP-38 (3)	GQ-27 (3)	GR-58 (3)	GS-51 In. (6) / GS-52 Ex. (3)	GT-48 (3)	GU-57 (6)	GV-24 (6)	GW-8 (3)
Franklin 130.....(1929)	GP-38 (3)	GQ-27 (3)	GR-58 (3)	GS-51 In. (6) / GS-52 Ex. (3)	GT-48 (3)	GU-57 (6)	GV-24 (6)	GW-8 (3)
Franklin 135, 137.....(1929)	GP-38 (3)	GQ-27 (3)	GR-58 (3)	GS-51 In. (6) / GS-52 Ex. (3)	GT-48 (3)	GU-57 (6)	GV-24 (6)	GW-8 (3)
Gardner 6-A, Lyc. 4-S..(1925)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Gardner 8-A, Lyc. 2-H..(1925)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-5 (5)	GV-2 (180)	GW-5 (74)
Gardner Series 5,Lyc.CE(1925)	GP-6 (64)	GR-6 (5)	GR-6 (5)	GS-6 (5)	GT-5 (32)	GU-6 (4)	GV-2 (180)	GW-5 (74)
Gardner 6-B, Lyc. 4-S...(1926)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Gardner 8-B, Lyc. 2-H..(1926)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-5 (5)	GV-2 (180)	GW-5 (74)
Gardner 80, Lyc. GT....(1927)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Gardner 90, Lyc. 4-HM.(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Gardner 75, Lyc. GT....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Gardner 85, Lyc. GS....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Gardner 95, Lyc. MD...(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-7 (24)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Gardner 120, Lyc. GT..(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

ENGINE ASSEMBLY, Section 3—Continued

Car Make and Model	Oil Pump Gears	Valve Assembly: Inlet Valve	Exhaust Valve	Valve Stem Guide	Valve Springs	Valve Lifters (Tappets)	Valve Lifter Adjusting Screws	Flywheel Starter Gear (Ring Gear)
Interchangeable Parts Have the Same CHILTON NUMBER in any Column								
Gardner 125, Lyc. GS...(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (76)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Gardner 130, Lyc. MD..(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-11 (2)	GU-8 (20)	GV-2 (180)	GW-17 (11)
Grah. P. 835, Cont. 12-K(1928-29)	GP-32 (6)	GQ-22 (6)	GR-47 (6)	GS-42 (6)	GT-37 (7)	GU-45 (4)	GV-22 (6)	GW-13 (7)
Graham Paige 610.....(1928-29)	GP-39 (7)	GQ-28 (4)	GR-33 (4)	GS-53 (4)	GT-49 (4)	GU-59 (4)	GV-2 (180)	GW-26 (12)
Graham Paige 614.....(1928-29)	GP-39 (7)	GQ-28 (4)	GR-33 (4)	GS-53 (4)	GT-49 (4)	GU-59 (4)	GV-25 (6)	GW-41 (3)
Graham Paige 619.....(1928-29)	GP-39 (7)	GQ-29 (3)	GR-59 (3)	GS-54 (3)	GT-51 (3)	GU-60 (3)	GV-25 (6)	GW-41 (3)
Graham Paige 629.....(1928-29)	GP-39 (7)	GQ-29 (3)	GR-59 (3)	GS-54 (3)	GT-51 (3)	GU-60 (3)	GV-25 (6)	GW-13 (7)
Graham Paige 612.....(1929)	GP-41 (3)	GQ-28 (4)	GR-33 (4)	GS-53 (4)	GT-49 (4)	GU-59 (4)	GV-2 (180)	GW-26 (12)
Graham Paige 615.....(1929)	GP-41 (3)	GQ-28 (4)	GR-33 (4)	GS-53 (4)	GT-49 (4)	GU-59 (4)	GV-25 (6)	GW-41 (3)
Graham Paige 621.....(1929)	GP-41 (3)	GQ-29 (3)	GR-59 (3)	GS-54 (3)	GT-51 (3)	GU-60 (3)	GV-25 (6)	GW-13 (7)
Grah. P. 827, Cont. 12-K(1929)	GP-32 (6)	GQ-22 (6)	GR-47 (6)	GS-42 (6)	GT-37 (7)	GU-45 (4)	GV-22 (6)	GW-13 (7)
Grah. P. 837, Cont. 12-K(1929)	GP-32 (6)	GQ-22 (6)	GR-47 (6)	GS-42 (6)	GT-37 (7)	GU-45 (4)	GV-22 (6)	GW-13 (7)
Haynes 60.....(1925)	GP-42 (1)	GR-62 (1)	GR-62 (1)	GS-57 (1)	GT-53 (1)	GU-63 (1)	GV-27 (17)	GW-12 (29)
Hudson Super 6.....(1925)	None	GR-63 (3)	GR-63 (3)	GS-58 (3)	GT-54 (3)	GU-64 (3)	GV-7 (26)	GW-12 (29)
Hudson Super 6.....(1926)	None	GR-63 (3)	GR-63 (3)	GS-58 (3)	GT-54 (3)	GU-64 (3)	GV-7 (26)	GW-12 (29)
Hudson Super 6.....(1927)	None	GR-63 (3)	GR-63 (3)	GS-58 (3)	GT-54 (3)	GU-64 (3)	GV-7 (26)	GW-12 (29)
Hudson Super 6-O.....(1928)	None	GQ-32 (3)	GR-65 (3)	GS-28 In. (3) GS-59 Ex. (2)	GT-55 In. (3) GT-56 Ex. (3)	GU-65 (3)	GV-7 (26)	GW-12 (29)
Hudson Super 6-S.....(1928)	None	GQ-32 (3)	GR-65 (3)	GS-28 In. (3) GS-59 Ex. (2)	GT-55 In. (3) GT-56 Ex. (3)	GU-65 (3)	GV-7 (26)	GW-12 (29)
Hudson Greater 6.....(1929)	None	GQ-32 (3)	GR-65 (3)	GS-28 In. (3) GS-60 Ex. (1)	GT-55 In. (3) GT-56 Ex. (3)	GU-65 (3)	GV-7 (26)	GW-12 (29)
Hupmobile R.....(1925)	GP-44 (2)	GR-61 (3)	GR-67 (1)	GS-62 (1)	GT-58 (1)	GU-67 (1)	GV-2 (180)	GW-32 (11)
Hupmobile E1.....(1925-26)	GP-43 (6)	GQ-31 (1)	GR-66 (6)	GS-61 (6)	GT-57 (6)	GU-66 (6)	GV-28 (6)	GW-42 (6)
Hupmobile A1.....(1926)	GP-45 (4)	GR-68 (4)	GR-68 (4)	GS-63 (4)	GT-59 (4)	GU-68 (4)	GV-27 (17)	GW-33 (21)
Hupmobile E2.....(1926-27)	GP-43 (6)	GQ-33 (6)	GR-66 (6)	GS-61 (6)	GT-57 (6)	GU-66 (6)	GV-28 (6)	GW-42 (6)
Hupmobile A2.....(1927)	GP-45 (4)	GR-68 (4)	GR-68 (4)	GS-63 (4)	GT-59 (4)	GU-68 (4)	GV-27 (17)	GW-33 (21)
Hupmobile E3.....(1927-28)	GP-43 (6)	GQ-33 (6)	GR-66 (6)	GS-61 (6)	GT-57 (6)	GU-66 (6)	GV-28 (6)	GW-42 (6)
Hupmobile Cent. 6.....(1928)	GP-45 (4)	GR-68 (4)	GR-68 (4)	GS-63 (4)	GT-59 (4)	GU-68 (4)	GV-27 (17)	GW-33 (21)
Hupmobile Cent. 8.....(1928)	GP-43 (6)	GQ-33 (6)	GR-66 (6)	GS-61 (6)	GT-57 (6)	GU-66 (6)	GV-28 (6)	GW-42 (6)
Hupmobile Cent. 125...(1928)	GP-43 (6)	GQ-33 (6)	GR-66 (6)	GS-61 (6)	GT-57 (6)	GU-66 (6)	GV-28 (6)	GW-42 (6)
Hupmobile M8.....(1928-29)	GP-43 (6)	GQ-33 (6)	GR-66 (6)	GS-61 (6)	GT-57 (6)	GU-66 (6)	GV-28 (6)	GW-42 (6)
Hupmobile Cent. 6.....(1929)	GP-45 (4)	GR-68 (4)	GR-68 (4)	GS-63 (4)	GT-59 (4)	GU-68 (4)	GV-27 (17)	GW-33 (21)
Jewett 6-50.....(1925)	GP-2 (29)	GR-69 (4)	GR-69 (4)	GS-64 (1)	GT-60 (4)	GU-69 (1)	GV-3 (20)	GW-43 (4)
Jwt, N. D, 6-40, Ct.18-L(1926)	GP-5 (18)	GQ-36 (2)	GR-73 (2)	GS-2 (57)	GT-6 (13)	GU-2 (55)	GV-2 (180)	GW-17 (11)
Jordan K, L, Cont. 6-S..(1925)	GP-34 (7)	GR-43 (1)	GR-43 (1)	GS-65 (1)	GT-3 (16)	GU-3 (31)	GV-3 (20)	GW-3 (28)
Jordan A, Cont. 9-K....(1925)	GP-34 (7)	GQ-37 (3)	GR 72 (3)	GS-2 (57)	GT-62 (3)	GU-3 (31)	GV-3 (20)	GW-48 (3)
Jordan A, Cont. 9-K....(1926)	GP-34 (7)	GQ-37 (3)	GR-72 (3)	GS-2 (57)	GT-62 (3)	GU-3 (31)	GV-3 (20)	GW-48 (3)
Jordan J, Cont. 8-S.....(1926)	GP-44 (2)	GQ-16 (7)	GR-37 (8)	GS-32 (3)	GT-33 (8)	GU-3 (31)	GV-3 (20)	GW-21 (19)
Jordan AA, Cont. 9-K..(1927)	GP-34 (7)	GQ-37 (3)	GR-72 (3)	GS-2 (57)	GT-62 (3)	GU-3 (31)	GV-1 (11)	GW-48 (3)
Jordan J1, Cont. 8-S....(1927)	GP-46 (7)	GQ-16 (7)	GR-37 (8)	GS-32 (3)	GT-33 (8)	GU-3 (31)	GV-7 (26)	GW-21 (19)
Jordan R, Cont. 12-E...(1927-28)	GP-48 (6)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-32 (16)	GU-71 (1)	GV-2 (180)	GW-44 (14)
Jordan JJ, Cont. 14-S...(1928)	GP-46 (7)	GQ-16 (7)	GR-37 (8)	GS-2 (57)	GT-33 (8)	GU-3 (31)	GV-7 (26)	GW-21 (19)
Jordan JE, Cont. 14-S..(1928-29)	GP-46 (7)	GQ-16 (7)	GR-37 (8)	GS-2 (57)	GT-33 (8)	GU-3 (31)	GV-7 (26)	GW-21 (19)
Jordan E, Cont. 16-C...(1929)	GP-47 (2)	GQ-38 (1)	GR-73 (2)	GS-2 (57)	GT-33 (8)	GU-3 (31)	GV-7 (26)	GW-21 (19)
Jordan G, Cont. 15-S...(1929)	GP-47 (2)	GQ-39 (2)	GR-73 (2)	GS-2 (57)	GT-33 (8)	GU-3 (31)	GV-7 (26)	GW-21 (19)
Kissel 6-55.....(1925)	GP-40 (3)	GR-75 (3)	GR-75 (3)	GS-5 (76)	GT-122 (3)	GU-72 (3)	GV-2 (180)	GW-5 (74)
Kissel 8-75, Lyc. 3-H...(1925)	GP-2 (29)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-123 (3)	GU-73 (3)	GV-2 (180)	GW-5 (74)
Kissel 6-55.....(1926)	GP-40 (3)	GR-75 (3)	GR-75 (3)	GS-5 (76)	GT-122 (3)	GU-72 (3)	GV-2 (180)	GW-5 (74)
Kissel 8-75, Lyc. 3-H....(1926)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-123 (3)	GU-73 (3)	GV-2 (180)	GW-5 (74)
Kissel 6-55.....(1927)	GP-40 (3)	GR-75 (3)	GR-75 (3)	GS-5 (76)	GT-122 (3)	GU-72 (3)	GV-2 (180)	GW-5 (74)
Kissel 8-65, Lyc. WS....(1927)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (76)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Kissel 8-75.....(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-123 (3)	GU-73 (3)	GV-2 (180)	GW-5 (74)
Kissel 6-70, Lyc WS....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (76)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Kissel 8-80, Lyc. GS....(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (76)	GT-126 (1)	GU-76 (1)	GV-2 (180)	GW-5 (74)
Kissel 8-80S, Lyc. GS...(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (76)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Kissel 8-90, Lyc. HM...(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-127 (2)	GU-77 (1)	GV-2 (180)	GW-5 (74)
Kissel 6-73, Lyc. WR...(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (76)	GT-125 (1)	GU-78 (1)	GV-2 (180)	GW-5 (74)
Kissel 8-95, Lyc. GS....(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (76)	GT-7 (24)	GU-11 (12)	GV-2 (180)	GW-5 (74)
Kissel 8-126, Lyc. MD...(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-127 (2)	GU-80 (1)	GV-2 (180)	GW-5 (74)
La Salle 303.....(1927)	GP-13 (6)	GQ-9 (4)	GR-19 (4)	GS-17 (6)	GT-18 (6)	GU-21 (7)	GV-8 (25)	GW-33 (21)
La Salle 303.....(1928)	GP-13 (6)	GQ-9 (4)	GR-19 (4)	GS-17 (6)	GT-18 (6)	GU-21 (7)	GV-8 (25)	GW-33 (21)
La Salle 328.....(1929)	GP-13 (6)	GQ-9 (4)	GR-19 (4)	GS-17 (6)	GT-18 (6)	GU-21 (7)	GV-8 (25)	GW-33 (21)
Lexington Con'd, Ans. F(1925)	GP-3 (24)	GR-79 (1)	GR-79 (1)	GS-73 (3)	GT-3 (16)	GU-81 (3)	GV-29 (3)	GW-25 (13)
Lexington Min. M., A. M(1925)	GP-3 (24)	GR-51 (2)	GR-51 (2)	GS-73 (3)	GT-3 (16)	GU-81 (3)	GV-29 (3)	GW-25 (13)
Lexington 6-50, Anst. M(1926)	GP-3 (24)	GR-51 (2)	GR-51 (2)	GS-73 (3)	GT-3 (16)	GU-81 (3)	GV-29 (3)	GW-25 (13)
Lincoln 8.....(1925)	GP-49 (5)	GR-80 (4)	GR-80 (4)	GS-74 (5)	GT-65 (5)	GU-82 (5)	GV-14 (10)	GW-45 (5)
Lincoln 8.....(1926)	GP-49 (5)	GR-80 (4)	GR-80 (4)	GS-74 (5)	GT-65 (5)	GU-82 (5)	GV-14 (10)	GW-45 (5)
Lincoln 8.....(1927)	GP-49 (5)	GQ-43 (1)	GR-81 (1)	GS-74 (5)	GT-65 (5)	GU-82 (5)	GV-14 (10)	GW-45 (5)
Lincoln 8.....(1928)	GP-49 (5)	GR-80 (4)	GR-80 (4)	GS-74 (5)	GT-65 (5)	GU-82 (5)	GV-14 (10)	GW-45 (5)
Lincoln 8.....(1929)	GP-49 (5)	GR-80 (4)	GR-80 (4)	GS-74 (5)	GT-65 (5)	GU-82 (5)	GV-14 (10)	GW-45 (5)
Locomobile Jr. 6.....(1925)	GP-53 (1)	GR-82 (1)	GR-82 (1)	GS-75 (3)	GT-66 (1)	GU-83 (1)	GV-27 (17)	GW-40 (8)
Locomobile Jr. 8.....(1925)	GP-50 (3)	GR-83 (3)	GR-83 (3)	GS-75 (3)	GT-67 (3)	GU-84 (3)	GV-30 (4)	GW-32 (11)
Locomobile 48.....(1925)	GP-51 (5)	GR-84 (5)	GR-84 (5)	GS-76 (5)	GT-68 (9)	GU-85 (5)	GV-27 (17)	GW-46 (5)
Locomobile 48.....(1926)	GP-51 (5)	GR-84 (5)	GR-84 (5)	GS-76 (5)	GT-68 (9)	GU-85 (5)	GV-27 (17)	GW-46 (5)
Locomobile 90.....(1926)	GP-52 (4)	GR-85 (4)	GR-85 (4)	GS-5 (76)	GT-68 (9)	GU-86 (4)	GV-31 (12)	GW-40 (8)
Locomobile Jr. 8.....(1926)	GP-50 (3)	GR-83 (3)	GR-83 (3)	GS-75 (3)	GT-67 (3)	GU-84 (3)	GV-30 (4)	GW-32 (11)
Locomobile 48.....(1927)	GP-51 (5)	GR-84 (5)	GR-84 (5)	GS-76 (5)	GT-68 (9)	GU-85 (5)	GV-27 (17)	GW-46 (5)
Locomobile 8-66.....(1927)	GP-50 (3)	GR-83 (3)	GR-83 (3)	GS-5 (76)	GT-67 (3)	GU-84 (3)	GV-31 (12)	GW-32 (11)
Loco. 8-80, Lyc. HD....(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-70 (4)	GU-87 (3)	GV-31 (12)	GW-5 (74)
Locomobile 90.....(1927)	GP-52 (4)	GR-85 (4)	GR-85 (4)	GS-5 (76)	GT-68 (9)	GU-86 (4)	GV-31 (12)	GW-40 (8)
Locomobile 48.....(1928)	GP-51 (5)	GR-84 (5)	GR-84 (5)	GS-76 (5)	GT-68 (9)	GU-85 (5)	GV-27 (17)	GW-46 (5)
Loco. 8-70, Cont. 8-S. ..(1928)	GP-46 (7)	GQ-20 (1)	GR-37 (8)	GS-77 (1)	GT-71 (1)	GU-88 (1)	GV-31 (12)	GW-21 (19)
Loco. 8-80, Lyc. HD....(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-70 (4)	GU-87 (3)	GV-31 (12)	GW-5 (74)
Locomobile 90.....(1928)	GP-52 (4)	GR-85 (4)	GR-85 (4)	GS-5 (76)	GT-68 (9)	GU-86 (4)	GV-31 (12)	GW-40 (8)
Locomobile 48.....(1929)	GP-51 (5)	GR-84 (5)	GR-84 (5)	GS-76 (5)	GT-68 (9)	GU-85 (5)	GV-27 (17)	GW-46 (5)
Loco. 8-80, Lyc. HD....(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-70 (4)	GU-87 (3)	GV-31 (12)	GW-5 (74)
Loco. 86, 88, Lyc. HDL.(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (76)	GT-70 (4)	GU-89 (1)	GV-31 (12)	GW-5 (74)
Locomobile 90.....(1929)	GP-52 (4)	GR-85 (4)	GR-85 (4)	GS-5 (76)	GT-68 (9)	GU-86 (4)	GV-31 (12)	GW-40 (8)
Marmon 74.....(1925)	GP-54 (4)	GQ-15 (4)	GR-86 (4)	GS-78 (4)	GT-72 (4)	GU-90 (6)	GV-6 (26)	GW-47 (4)
Marmon 74.....(1926)	GP-54 (4)	GQ-15 (4)	GR-86 (4)	GS-78 (4)	GT-72 (4)	GU-90 (6)	GV-6 (26)	GW-47 (4)
Marmon Little.....(1927)	GP-55 (3)	GQ-46 (1)	GR-87 (1)	GS-79 (2)	GT-73 (3)	GU-91 (1)	GV-6 (26)	GW-44 (14)
Marmon E75.....(1927)	GP-54 (4)	GQ-15 (4)	GR-86 (4)	GS-78 (4)	GT-72 (4)	GU-90 (6)	GV-6 (26)	GW-47 (4)
Marmon 68.....(1928)	GP-56 (3)	GQ-47 (3)	GR-88 (3)	GS-80 (2)	GT-74 (3)	GU-92 (3)	GV-11 (9)	GW-44 (14)
Marmon E75.....(1928)	GP-54 (4)	GQ-15 (4)	GR-86 (4)	GS-78 (4)	GT-72 (4)	GU-90 (6)	GV-6 (26)	GW-47 (4)
Marmon 78.....(1928)	GP-55 (3)	GQ-48 (2)	GR-89 (2)	GS-79 (2)	GT-73 (3)	GU-90 (6)	GV-11 (9)	GW-44 (14)
Marmon 68.....(1929)	GP-56 (3)	GQ-47 (3)	GR-88 (3)	GS-80 (2)	GT-74 (3)	GU-92 (3)	GV-11 (9)	GW-44 (14)
Marmon, Roosevelt.....(1929)	GP-56 (3)	GQ-47 (3)	GR-88 (3)	GS-81 (2)	GT-74 (3)	GU-92 (3)	GV-2 (180)	GW-33 (21)
Marmon 78.....(1929)	GP-55 (3)	GQ-48 (2)	GR-89 (2)	GS-81 (2)	GT-73 (3)	GU-90 (6)	GV-11 (9)	GW-44 (14)
Maxwell.....(1925)	GP-20 (5)	GR-29 (5)	GR-29 (5)	GS-24 (5)	GT-26 (4)	GU-32 (5)	GV-2 (180)	GW-24 (9)
Moon Series A, Cont.7-Z(1925)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (55)	GV-1 (11)	GW-53 (6)
Moon Series A, Cont.7-Z(1926)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (55)	GV-1 (11)	GW-53 (6)
Moon Series A, Cont.7-Z(1927)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (55)	GV-1 (11)	GW-53 (6)
Moon 6-60, Cont. 26-L..(1927)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-6 (13)	GU-2 (55)	GV-2 (180)	GW-53 (6)
Moon Series A, Cont.7-Z(1928)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (55)	GV-1 (11)	GW-53 (6)
Moon 6-60, Cont. 26-L..(1928)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-6 (13)	GU-2 (55)	GV-2 (180)	GW-53 (6)
Moon 6-72, Cont. 11-E..(1928)	GP-48 (6)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-75 (2)	GU-93 (6)	GV-2 (180)	GW-44 (14)
Moon 8-80, Cont. 15-S...(1928)	GP-46 (7)	GQ-16 (7)	GR-37 (8)	GS-2 (57)	GT-33 (9)	GU-3 (51)	GV-7 (26)	GW-21 (19)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

ENGINE ASSEMBLY, Section 3—Continued

Car Make and Model	Oil Pump Gears	Valve Assembly: Inlet Valve	Exhaust Valve	Valve Stem Guide	Valve Springs	Valve Lifters (Tappets)	Valve Lifter Adjusting Screws	Flywheel Starter Gear (Ring Gear)
Interchangeable Parts Have the Same CHILTON NUMBER in any Column								
Moon 6-72, Cont. 11-E..(1929)	GP-48 (6)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-75 (2)	GU-93 (6)	GV-2 (180)	GW-44 (14)
Nash Adv. 6.....(1925)	GP-58 (4)	GR-91 (2)	GR-91 (2)	GS-86 (4)	GT-76 (5)	GU-94 (5)	GV-6 (26)	GW-25 (15)
Nash Spec. 6.....(1925)	GP-58 (4)	GR-92 (2)	GR-92 (2)	GS-87 (4)	GT-77 (3)	GU-94 (5)	GV-6 (26)	GW-25 (15)
Nash Adv. 6.....(1926)	GP-59 (6)	GR-91 (2)	GR-91 (2)	GS-86 (4)	GT-76 (5)	GU-94 (5)	GV-6 (26)	GW-25 (15)
Nash Spec. 6.....(1926)	GP-58 (4)	GR-92 (2)	GR-92 (2)	GS-87 (4)	GT-77 (3)	GU-94 (5)	GV-6 (26)	GW-25 (15)
Nash Adv. 6.....(1927)	GP-59 (6)	GR-93 (3)	GR-93 (3)	GS-86 (4)	GT-76 (5)	GU-95 (5)	GV-6 (26)	GW-49 (2)
Nash Spec. 6.....(1927)	GP-58 (4)	GR-94 (3)	GR-94 (3)	GS-87 (4)	GT-77 (3)	GU-94 (5)	GV-6 (26)	GW-49 (2)
Nash Light 6.....(1927)	GP-1 (4)	GR-1 (2)	GR-1 (3)	GS-1 (3)	GT-1 (4)	GU-1 (3)	GV-1 (11)	GW-1 (4)
Nash Adv. 6.....(1928)	GP-59 (6)	GR-93 (3)	GR-93 (3)	GS-86 (4)	GT-76 (5)	GU-95 (5)	GV-6 (26)	GW-26 (12)
Nash Spec. 6.....(1928)	GP-59 (6)	GR-94 (3)	GR-94 (3)	GS-87 (4)	GT-78 (5)	GU-95 (5)	GV-6 (26)	GW-26 (12)
Nash Std. 6.....(1928)	GP-1 (4)	GR-1 (2)	GR-1 (3)	GS-1 (3)	GT-1 (4)	GU-1 (3)	GV-1 (11)	GW-1 (4)
Nash Adv. 6.....(1929)	GP-59 (6)	GR-93 (3)	GR-93 (3)	GS-89 (1)	GT-76 (5)	GU-95 (5)	GV-6 (26)	GW-26 (12)
Nash Spec. 6.....(1929)	GP-59 (6)	GR-94 (3)	GR-94 (3)	GS-88 (1)	GT-78 (5)	GU-95 (5)	GV-6 (26)	GW-26 (12)
Nash Std. 6.....(1929)	GP-1 (4)	GR-95 (1)	GR-95 (1)	GS-90 (7)	GT-1 (4)	GU-96 (1)	GV-1 (11)	GW-1 (4)
Oakland 6-54.....(1925)	GP-60 (3)	GR-96 (2)	GR-96 (2)	GS-92 (3)	GT-78 (5)	GU-97 (1)	GV-2 (180)	GW-50 (6)
Oakland O6.....(1926)	GP-60 (3)	GR-96 (2)	GR-96 (2)	GS-92 (3)	GT-78 (5)	GU-98 (2)	GV-2 (180)	GW-50 (6)
Oakland GO6.....(1927)	GP-60 (3)	GR-97 (1)	GR-97 (1)	GS-92 (3)	GT-78 (5)	GU-98 (2)	GV-2 (180)	GW-50 (6)
Oakland AA-6.....(1928)	GP-62 (2)	GQ-49 (2)	GR-98 (2)	GS-94 (2)	GT-79 (2)	GU-99 (2)	GV-30 (4)	GW-51 (2)
Oakland AA-6.....(1929)	GP-62 (2)	GQ-49 (2)	GR-98 (2)	GS-94 (2)	GT-79 (2)	GU-99 (2)	GV-30 (4)	GW-51 (2)
Oldsmobile C.....(1925)	GP-63 (3)	GR-99 (2)	GR-99 (2)	GS-95 (2)	GT-130 (2)	GU-100 (2)	GV-2 (180)	GW-50 (6)
Oldsmobile D.....(1926)	GP-63 (3)	GR-99 (2)	GR-99 (2)	GS-95 (2)	GT-130 (2)	GU-100 (2)	GV-2 (180)	GW-50 (6)
Oldsmobile E.....(1927)	GP-63 (3)	GR-100 (1)	GR-100 (1)	GS-93 (1)	GT-131 (1)	GU-101 (1)	GV-2 (180)	GW-50 (6)
Oldsmobile F28.....(1928)	GP-64 (2)	GQ-51 (2)	GR-101 (2)	GS-96 (2)	GT-80 (2)	GU-102 (2)	GV-31 (12)	GW-26 (12)
Oldsmobile F29.....(1929)	GP-64 (2)	GQ-51 (2)	GR-101 (2)	GS-96 (2)	GT-80 (2)	GU-102 (2)	GV-31 (12)	GW-26 (12)
Overland 91.....(1925)	None	GR-102 (2)	GR-102 (2)	GS-97 (2)	GT-81 (2)	GU-103 (2)	GV-2 (180)	GW-52 (2)
Overland 93.....(1925)	GP-65 (5)	GR-103 (2)	GR-103 (2)	GS-98 (2)	GT-82 (2)	GU-104 (5)	GV-2 (180)	GW-37 (10)
Overland 91.....(1926)	None	GR-102 (2)	GR-102 (2)	GS-97 (2)	GT-81 (2)	GU-103 (2)	GV-2 (180)	GW-52 (2)
Overland 93.....(1926)	GP-65 (5)	GR-103 (2)	GR-103 (2)	GS-98 (2)	GT-82 (2)	GU-104 (5)	GV-2 (180)	GW-37 (10)
Packard 6 cyl., 326, 333.(1925)	GP-67 (12)	GQ-52 (6)	GR-106 (6)	GS-90 In. (7) GS-100 Ex. (6)	GT-84 (4)	GU-106 (2)	GV-2 (180)	GW-12 (28)
Packard 8 cyl., 236, 243.(1925)	GP-67 (12)	GQ-52 (6)	GR-106 (6)	GS-90 In. (7) GS-100 Ex. (6)	GT-84 (4)	GU-106 (2)	GV-2 (180)	GW-12 (29)
Packard 6 cyl., 326, 333.(1926)	GP-67 (12)	GQ-52 (6)	GR-106 (6)	GS-90 In. (7) GS-100 Ex. (6)	GT-84 (4)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 8 cyl., 236, 243.(1926)	GP-67 (12)	GQ-52 (6)	GR-106 (6)	GS-90 In. (7) GS-100 Ex. (6)	GT-84 (4)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 6 cyl., 426, 433.(1927)	GP-67 (12)	GQ-52 (6)	GR-106 (6)	GS-90 In. (7) GS-100 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 8 cyl., 336, 343.(1927)	GP-67 (12)	GQ-52 (6)	GR-106 (6)	GS-90 In. (7) GS-100 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 6 cyl., 526.....(1928)	GP-67 (12)	GQ-53 (6)	GR-107 (6)	GS-85 In. (6) GS-101 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard Std. 8, 443.....(1928)	GP-67 (12)	GQ-53 (6)	GR-107 (6)	GS-85 In. (6) GS-101 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 6 cyl., 533....(1928)	GP-67 (12)	GQ-53 (6)	GR-107 (6)	GS-85 In. (6) GS-101 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 626.....(1929)	GP-67 (12)	GQ-53 (6)	GR-107 (6)	GS-85 In. (6) GS-101 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 633.....(1929)	GP-67 (12)	GQ-53 (6)	GR-107 (6)	GS-85 In. (6) GS-101 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Packard 640, 645.....(1929)	GP-67 (12)	GQ-53 (6)	GR-107 (6)	GS-85 In. (6) GS-101 Ex. (6)	GT-85 (8)	GU-107 (10)	GV-2 (180)	GW-12 (29)
Paige 70, Cont. 10-A....(1925-26)	GP-3 (24)	GR-20 (5)	GR-20 (5)	GS-102 (2)	GT-86 (1)	GU-3 (31)	GV-3 (20)	GW-24 (9)
Paige 72.....(1926)	GP-39 (7)	GR-69 (4)	GR-69 (4)	GS-102 (2)	GT-60 (4)	GU-109 (3)	GV-3 (20)	GW-43 (4)
Paige 6-45, Cont. 19-L..(1927-28)	GP-5 (18)	GQ-36 (2)	GR-70 (2)	GS-103 (3)	GT-87 (1)	GU-2 (36)	GV-2 (180)	GW-17 (11)
Paige 6-65.....(1927-28)	GP-39 (7)	GR-69 (4)	GR-69 (4)	GS-103 (3)	GT-60 (4)	GU-109 (3)	GV-3 (20)	GW-43 (4)
Paige 6-75.....(1927-28)	GP-39 (7)	GR-69 (4)	GR-69 (4)	GS-103 (3)	GT-60 (4)	GU-109 (3)	GV-3 (20)	GW-43 (4)
Paige 8-85, Lyc. MD....(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Paige 8-85, Lyc. MD....(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Peerless 70.....(1925)	GP-26 (9)	GR-110 (5)	GR-110 (5)	GS-104 (5)	GT-89 (5)	GU-111 (5)	GV-32 (10)	GW-54 (5)
Peerless 67.....(1925)	GP-68 (4)	GR-111 (4)	GR-111 (4)	GS-105 (4)	GT-90 (4)	GU-112 (4)	GV-32 (10)	GW-56 (4)
Peerless 80, Cont. 8-U...(1926)	GP-26 (9)	GQ-23 (8)	GR-49 (7)	GS-2 (57)	GT-32 (16)	GU-3 (31)	GV-2 (180)	GW-2 (31)
Peerless 69.....(1926)	GP-68 (4)	GR-111 (4)	GR-111 (4)	GS-105 (4)	GT-90 (4)	GU-112 (4)	GV-32 (10)	GW-56 (4)
Peerless 60, Cont. 10-E..(1927)	GP-48 (6)	GQ-24 (9)	GR-50 (11)	GS-2 (57)	GT-32 (16)	GU-93 (6)	GV-2 (180)	GW-44 (14)
Peerless 69.....(1927)	GP-68 (4)	GR-111 (4)	GR-111 (4)	GS-105 (4)	GT-90 (4)	GU-112 (4)	GV-32 (10)	GW-56 (4)
Peerless 80, Cont. 8-U...(1927)	GP-26 (9)	GQ-23 (8)	GR-49 (7)	GS-2 (57)	GT-32 (16)	GU-3 (31)	GV-2 (180)	GW-2 (31)
Peerless 90.....(1927)	GP-26 (9)	GR-110 (5)	GR-110 (5)	GS-104 (5)	GT-89 (5)	GU-111 (5)	GV-32 (10)	GW-54 (5)
Peerless 72.....(1927-28)	GP-26 (9)	GR-110 (5)	GR-110 (5)	GS-104 (5)	GT-89 (5)	GU-111 (5)	GV-32 (10)	GW-54 (5)
Peerless 60, Cont. 10-E..(1928)	GP-48 (6)	GQ-39 (2)	GR-50 (11)	GS-2 (57)	GT-32 (16)	GU-93 (6)	GV-2 (180)	GW-44 (14)
Peerless 69.....(1928)	GP-68 (4)	GR-111 (4)	GR-111 (4)	GS-105 (4)	GT-90 (4)	GU-112 (4)	GV-32 (10)	GW-56 (4)
Peerless 80, Cont. 8-U...(1928)	GP-26 (9)	GQ-23 (8)	GR-49 (7)	GS-2 (57)	GT-32 (16)	GU-3 (31)	GV-2 (180)	GW-2 (31)
Peerless 91.....(1928)	GP-26 (9)	GR-110 (5)	GR-110 (5)	GS-104 (5)	GT-89 (5)	GU-111 (5)	GV-32 (10)	GW-54 (5)
Peerless 61, Cont. 11-E..(1929)	GP-48 (6)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-32 (16)	GU-93 (6)	GV-32 (10)	GW-44 (14)
Peerless 81, Cont. 18-C..(1929)	GP-26 (9)	GQ-23 (8)	GR-49 (7)	GS-2 (57)	GT-32 (16)	GU-93 (6)	GV-2 (180)	GW-2 (31)
Peerless 91.....(1929)	GP-26 (9)	GR-110 (5)	GR-110 (5)	GS-104 (5)	GT-89 (5)	GU-111 (5)	GV-32 (10)	GW-54 (5)
Peerless 125, Cont. 12-K(1929)	GP-32 (5)	GQ-22 (5)	GR-47 (5)	GS-42 (5)	GT-37 (7)	GU-145 (3)	GV-22 (5)	GW-13 (7)
Pierce Arrow 80.....(1925)	GP-69 (4)	GQ-56 (4)	GR-113 (4)	GS-107 (4)	GT-91 (4)	GU-114 (4)	GV-33 (8)	GW-3 (28)
Pierce Arrow 33.....(1926)	GP-70 (3)	GR-114 (1)	GR-114 (1)	GS-108 (3)	GT-92 (3)	GU-115 (3)	GV-33 (8)	GW-58 (3)
Pierce Arrow 80.....(1926)	GP-69 (4)	GQ-56 (4)	GR-113 (4)	GS-107 (4)	GT-91 (4)	GU-114 (4)	GV-33 (8)	GW-3 (28)
Pierce Arrow 36.....(1927)	GP-70 (3)	GQ-57 (2)	GR-115 (2)	GS-108 (3)	GT-92 (3)	GU-115 (3)	GV-33 (8)	GW-58 (3)
Pierce Arrow 80.....(1927)	GP-69 (4)	GQ-56 (4)	GR-113 (4)	GS-107 (4)	GT-91 (4)	GU-114 (4)	GV-33 (8)	GW-3 (28)
Pierce Arrow 36.....(1928)	GP-70 (3)	GQ-57 (2)	GR-115 (2)	GS-108 (3)	GT-92 (3)	GU-115 (3)	GV-33 (8)	GW-58 (3)
Pierce Arrow 81.....(1928)	GP-69 (4)	GQ-56 (4)	GR-113 (4)	GS-107 (4)	GT-91 (4)	GU-114 (4)	GV-33 (8)	GW-3 (28)
Pierce Arrow 133, 143...(1929)	GP-61 (4)	GQ-58 (1)	GR-116 (1)	GS-109 (1)	GT-93 (1)	GU-116 (1)	GV-33 (8)	GW-60 (1)
Plymouth.....(1929)	GP-20 (5)	GR-29 (5)	GR-29 (5)	GS-24 (5)	GT-117 (1)	GU-32 (5)	GV-2 (180)	GW-24 (9)
Pontiac 6.....(1926)	GP-71 (4)	GQ-50 (4)	GR-117 (4)	GS-110 (3)	GT-94 (4)	GU-117 (4)	GV-2 (180)	GW-21 (19)
Pontiac 6.....(1927)	GP-71 (4)	GQ-50 (4)	GR-117 (4)	GS-110 (3)	GT-94 (4)	GU-117 (4)	GV-2 (180)	GW-21 (19)
Pontiac 6.....(1928)	GP-71 (4)	GQ-50 (4)	GR-117 (4)	GS-110 (3)	GT-94 (4)	GU-117 (4)	GV-2 (180)	GW-21 (19)
Pontiac Big 6.....(1929)	GP-71 (4)	GQ-50 (4)	GR-117 (4)	GS-111 (1)	GT-94 (4)	GU-117 (4)	GV-2 (180)	GW-21 (19)
Reo T6.....(1925)	None	GQ-60 (2)	GR-118 (2)	GS-82 In. (2) GS-112 Ex. (2)	GT-95 In. (2) GT-135 Ex. (2)	GU-119 In. (2) GU-118 Ex. (2)	GV-45 In. (2) GV-1 Ex. (11)	None
Reo T6.....(1926)	None	GQ-60 (2)	GR-118 (2)	GS-82 In. (2) GS-112 Ex. (2)	GT-95 In. (2) GT-135 Ex (2)	GU-119 In. (2) GU-118 Ex. (2)	GV-45 In. (2) GV-1 Ex. (11)	None
Reo Flying Cloud Master(1927)	GP-72 (3)	GR-119 (3)	GR-119 (3)	GS-113 (3)	GT-96 (2)	GU-120 (3)	GV-2 (180)	GW-24 (9)
Reo Wolv'ne, Cont. 15-E(1927)	GP-28 (8)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-32 (16)	GU-121 (3)	GV-2 (180)	GW-44 (14)
Reo Flying Cloud.....(1928)	GP-72 (3)	GR-119 (3)	GR-119 (3)	GS-113 (3)	GT-96 (2)	GU-120 (3)	GV-2 (180)	GW-24 (9)
Reo Wolv'ne, Cont. 15-E(1928)	GP-28 (8)	GQ-24 (9)	GR-50 (11)	GS-45 (7)	GT-32 (16)	GU-121 (3)	GV-2 (180)	GW-44 (14)
Reo Flying Cloud Master(1929)	GP-72 (3)	GR-119 (3)	GR-119 (3)	GS-113 (3)	GT-97 (1)	GU-120 (3)	GV-2 (180)	GW-24 (9)
Reo Fly. Cl. Mate 16-C.(1929)	GP-28 (8)	GQ-23 (8)	GR-50 (11)	GS-2 (57)	GT-32 (16)	GU-121 (3)	GV-2 (180)	GW-44 (14)
Rickenbacker A8.....(1925)	GP-74 (7)	GR-122 (1)	GR-122 (1)	GS-116 In. (7) GS-70 Ex. (7)	GT-99 (7)	GU-123 (1)	GV-7 (26)	GW-2 (31)
Rickenbacker D6.....(1925)	GP-74 (7)	GR-123 (6)	GR-123 (6)	GS-116 In. (7) GS-70 Ex. (7)	GT-99 (7)	GU-124 (3)	GV-7 (26)	GW-2 (31)
Rickenbacker 8-B.....(1926)	GP-74 (7)	GR-123 (6)	GR-123 (6)	GS-116 In. (7) GS-70 Ex. (7)	GT-99 (7)	GU-125 (3)	GV-7 (26)	GW-2 (31)
Rickenbacker E.....(1926)	GP-74 (7)	GR-123 (6)	GR-123 (6)	GS-116 In. (7) GS-70 Ex. (7)	GT-99 (7)	GU-124 (3)	GV-7 (26)	GW-2 (31)
Rickenbacker 6-70.....(1927)	GP-74 (7)	GR-123 (6)	GR-123 (6)	GS-116 In (7) GS-70 Ex. (7)	GT-99 (7)	GU-124 (3)	GV-7 (26)	GW-2 (31)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

ENGINE ASSEMBLY, Section 3—Continued

Car Make and Model	Oil Pump Gears	Valve Assembly: Inlet Valve	Exhaust Valve	Valve Stem Guide	Valve Springs	Valve Lifters (Tappets)	Valve Lifter Adjusting Screws	Flywheel Starter Gear (Ring Gear)
Rickenbacker 8-80.....(1927)	GP-74 (7)	GR-123 (6)	GR-123 (6)	GS-116 In (7) GS-70 Ex. (7)	GT-99 (7)	GU-125 (3)	GV-7 (26)	GW-2 (31)
Rickenbacker 8-90.....(1927)	GP-74 (7)	GR-123 (6)	GR-123 (6)	GS-116 In. (7) GS-70 Ex. (7)	GT-99 (7)	GU-125 (3)	GV-7 (26)	GW-2 (31)
Roamer 4-75E.....(1925)	GP-75 (2)	GQ-63 (2)	GR-124 (2)	GS-117 (2)	GT-100 (2)	GU-126 (2)	GV-35 (2)	GW-3 (27)
Roamer 6-54E,Cont 9-N(1925)	GP-3 (24)	GR-125 (2)	GR-125 (2)	GS-118 (2)	GT-101 (2)	GU-127 (2)	GV-36 (2)	GW-3 (27)
Roamer 4-75E.....(1926)	GP-75 (2)	GQ-63 (2)	GR-124 (2)	GS-117 (2)	GT-100 (2)	GU-126 (2)	GV-35 (2)	GW-3 (27)
Roamer 6-50, Cont. 7-U.(1926)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-2 (31)
Roamer 6-54E Cont 9-N(1926)	GP-3 (24)	GR-125 (2)	GR-125 (2)	GS-118 (2)	GT-101 (2)	GU-127 (2)	GV-36 (2)	GW-3 (28)
Roamer 8-80, Lyc.4-HM(1926)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Roamer 8-78, Lyc. GT..(1927)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Roamer 8-80, Lyc.4-HM(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Roamer 8-88, Lyc. 4-H..(1927)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-7 (5)	GV-2 (180)	GW-5 (74)
Roamer 8-78, Lyc. GT..(1928)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Roamer 8-80, Lyc.4-HM(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Roamer 8-88, Lyc. 4-H..(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-7 (5)	GV-2 (180)	GW-5 (74)
Roamer 8-78, Lyc. GT..(1929)	GP-6 (64)	GQ-3 (27)	GR-8 (26)	GS-5 (75)	GT-7 (24)	GU-10 (10)	GV-2 (180)	GW-5 (74)
Roamer 8-80, Lyc.4-HM(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Roamer 8-88, Lyc. 4-H..(1929)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-5 (32)	GU-7 (5)	GV-2 (180)	GW-5 (74)
Rollin G2.....(1925)	GP-76 (1)	GR-126 (1)	GR-126 (1)	GS-83 In. (1) GS-119 Ex. (1)	GT-102 (1)	GU-128 (1)	GV-2 (180)	GW-21 (19)
Star F, Cont. W5.....(1925)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Star M, Cont. W5.....(1926)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Star Std. R, Cont. 14-L.(1926)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-41 (6)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Star M, Cont. W5.....(1927-28)	GP-2 (29)	GR-2 (16)	GR-2 (16)	GS-2 (57)	GT-2 (16)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Star R, Cont. 14-L.....(1927-28)	GP-5 (18)	GQ-2 (15)	GR-7 (15)	GS-2 (57)	GT-41 (6)	GU-2 (35)	GV-2 (180)	GW-33 (21)
Stearns Knight B, 4 cyl..(1925)	GP-77 (4)	None	None	None	None	None	None	GW-64 (6)
Stearns Knight C, 6 cyl..(1925)	GP-77 (4)	None	None	None	None	None	None	GW-65 (2)
Stearns Knight S, 6 cyl..(1925)	GP-77 (4)	None	None	None	None	None	None	GW-65 (2)
Stearns Knight B, 4 cyl..(1926)	GP-77 (4)	None	None	None	None	None	None	GW-64 (6)
Stearns Knight C, 75....(1926)	GP-78 (2)	None	None	None	None	None	None	GW-63 (1)
Stearns Knight S, 95....(1926)	GP-78 (2)	None	None	None	None	None	None	GW-64 (6)
Stearns Knight F, 6-85..(1927)	GP-79 (2)	None	None	None	None	None	None	GW-64 (6)
Stearns Knight G, 8-85..(1927-28)	GP-80 (3)	None	None	None	None	None	None	GW-64 (6)
Stearns Knight F, 6-85..(1928)	GP-79 (2)	None	None	None	None	None	None	GW-64 (6)
Stearns K. H & J, 8-90..(1928)	GP-80 (3)	None	None	None	None	None	None	GW-33 (21)
Stearns K. H & J, 8-90..(1929)	GP-80 (3)	None	None	None	None	None	None	GW-33 (21)
Stearns K. M & N, 6-80(1929)	GP-81 (1)	None	None	None	None	None	None	GW-32 (11)
Stevens Duryea G.....(1925)	GP-82 (1)	GQ-35 (1)	GR-127 (1)	GS-121 (5)	GT-103 (1)	GU-129 (1)	GV 37 (1)	GW-3 (28)
Studebaker Big 6.....(1925)	GP-83 (6)	GR-128 (6)	GR-128 (6)	GS-121 In. (5) GS-120 Ex. (4)	GT-104 (3)	GU-130 (7)	GV-27 (17)	None
Studebaker Spec. 6.....(1925)	GP-83 (6)	GR-128 (6)	GR-128 (6)	GS-121 In. (5) GS-120 Ex. (4)	GT-105 (3)	GU-130 (7)	GV-27 (17)	None
Studebaker Std. 6.....(1925)	GP-84 (3)	GR-129 (3)	GR-129 (3)	GS-123 (2)	GT-106 (5)	GU-131 (3)	GV-8 (25)	GW-12 (29)
Studebaker Big 6.....(1926)	GP-83 (6)	GR-128 (6)	GR-128 (6)	GS-121 In. (5) GS-120 Ex. (4)	GT-104 (3)	GU-130 (7)	GV-27 (17)	None
Studebaker Std. 6.....(1926)	GP-84 (3)	GR-129 (3)	GR-129 (3)	GS-123 (2)	GT-106 (5)	GU-131 (3)	GV-8 (25)	GW-12 (29)
Studebaker Spec. 6.....(1926)	GP-83 (6)	GR-128 (6)	GR-128 (6)	GS-121 In. (5) GS-120 Ex. (4)	GT-105 (3)	GU-130 (7)	GV-27 (17)	None
Studebaker Big 6.....(1927)	GP-83 (6)	GR-128 (6)	GR-128 (6)	GS-84 In. (4) GS-122 Ex. (4)	GT-104 (3)	GU-130 (7)	GV-27 (17)	None
Studebaker Spec. 6.....(1927)	GP-83 (6)	GR-128 (6)	GR-128 (6)	GS-84 In. (4) GS-122 Ex. (4)	GT-105 (3)	GU-130 (7)	GV-27 (17)	None
Studebaker Std. 6.....(1927)	GP-84 (3)	GR-129 (3)	GR-129 (3)	GS-124 (4)	GT-106 (5)	GU-131 (3)	GV-8 (25)	GW-12 (29)
Studebaker Com. 6.....(1928)	GP-85 (2)	GR-131 (2)	GR-131 (2)	GS-84 In (4) GS-122 Ex. (4)	GT-107 (2)	GU-130 (7)	GV-2 (180)	GW-69 (2)
Studebaker Dict. 6.....(1928)	GP-86 (2)	GQ-64 (1)	GR-130 (1)	GS-124 (4)	GT-106 (5)	GU-132 (2)	GV-2 (180)	GW-12 (29)
Studebaker Pres. 8.....(1928)	GP-87 (3)	GQ-65 (3)	GR-132 (3)	GS-2 (57)	GT-108 (3)	GU-133 (4)	GV-2 (180)	GW-2 (31)
Studebaker Com. 6.....(1929-30)	GP-85 (2)	GR-131 (2)	GR-131 (2)	GS-84 In. (4) GS-122 Ex. (4)	GT-107 (2)	GU-133 (4)	GV-2 (180)	GW-69 (2)
Studebaker Com. 8.....(1929-30)	GP-87 (3)	GQ-65 (3)	GR-132 (3)	GS-124 (4)	GT-108 (3)	GU-133 (4)	GV-2 (180)	GW-30 (4)
Studebaker Dict. 6.....(1929-30)	GP-86 (2)	GQ-66 (1)	GR-133 (1)	GS-124 (4)	GT-106 (5)	GU-132 (2)	GV-2 (180)	GW-12 (29)
Studebaker Pres. 8.....(1929-30)	GP-87 (3)	GQ-65 (3)	GR-132 (3)	GS-2 (57)	GT-108 (3)	GU-133 (4)	GV-2 (180)	GW-2 (31)
Stutz 6-95.....(1925)	GP-88 (1)	GR-134 (1)	GR-134 (1)	GS-125 (1)	GT-109 (1)	GU-134 (1)	GV-38 (1)	GW-3 (28)
Stutz AA.....(1926)	GP-89 (4)	GR-135 (3)	GR-135 (3)	GS-8 In. (5) GS-7 Ex. (5)	GT-110 (2)	GU-135 (2)	GV-39 (2)	GW-9 (5)
Stutz AA.....(1927)	GP-89 (4)	GR-135 (3)	GR-135 (3)	GS-8 In. (5) GS-7 Ex. (5)	GT-110 (2)	GU-135 (2)	GV-39 (2)	GW-9 (5)
Stutz BB.....(1928)	GP-89 (4)	GR-135 (3)	GR-135 (3)	GS-8 In. (5) GS-7 Ex. (5)	GT-12 (4)	GU-136 (1)	GV-40 (2)	GW-9 (5)
Stutz Series M.....(1929)	GP-89 (4)	GQ-67 (1)	GR-136 (1)	GS-8 In. (5) GS-7 Ex. (5)	GT-12 (4)	GU-137 (1)	GV-40 (2)	GW-9 (5)
Velie 60.....(1925)	GP-90 (5)	GQ-68 (6)	GR-137 (6)	GS-130 (7)	GT-112 (3)	GU-138 (4)	GV-41 (7)	GW-3 (28)
Velie 60.....(1926)	GP-90 (5)	GQ-68 (6)	GR-137 (6)	GS-130 (7)	GT-112 (3)	GU-138 (4)	GV-41 (7)	GW-3 (28)
Velie Std. 50.....(1927)	GP-4 (4)	GQ-68 (6)	GR-137 (6)	GS-130 (7)	GT-113 (3)	GU-138 (4)	GV-41 (7)	GW-2 (31)
Velie Spec. 60..... (1927-28)	GP-90 (5)	GQ-68 (6)	GR-137 (6)	GS-130 (7)	GT-112 (3)	GU-138 (4)	GV-41 (7)	GW-3 (28)
Velie Std. 50.....(1928)	GP-4 (4)	GR-4 (3)	GR-4 (3)	GS-130 (7)	GT-114 (1)	GU-2 (35)	GV-41 (7)	GW-2 (31)
Velie 6-66.....(1928)	GP-90 (5)	GQ-68 (6)	GR-137 (6)	GS-130 (7)	GT-113 (3)	GU-140 (1)	GV-41 (7)	GW-3 (28)
Velie 6-77.....(1928)	GP-90 (5)	GQ-68 (6)	GR-137 (6)	GS-130 (7)	GT-113 (3)	GU-141 (1)	GV-41 (7)	GW-3 (28)
Velie 8-88, Lyc. 4-HM..(1928)	GP-6 (64)	GQ-1 (42)	GR-5 (41)	GS-5 (75)	GT-8 (2)	GU-8 (20)	GV-2 (180)	GW-5 (74)
Viking.....(1928-29)	GP-96 (1)	GQ-70 (1)	GR-138 (1)	GS-131 (2)	GT-115 (1)	GU-143 (1)	GV-42 (1)	GW-19 (6)
Westcott 44, Cont. 8-R.(1925)	GP-3 (24)	GR-3 (7)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-2 (180)	GW-3 (28)
Westcott 60, Cont. 8-R.(1925)	GP-3 (24)	GR-3 (7)	GR-3 (8)	GS-3 (8)	GT-3 (16)	GU-3 (31)	GV-2 (180)	GW-3 (28)
Whippet 96, 4 cyl.....(1927)	GP-66 (6)	GR-104 (2)	GR-104 (3)	GS-99 (6)	GT-83 (2)	GU-105 (3)	GV-2 (180)	GW-35 (5)
Whippet 93-A, 6 cyl.....(1927)	GP-65 (5)	GR-105 (3)	GR-105 (3)	GS-99 (6)	GT-132 (3)	GU-104 (5)	GV-2 (180)	GW-37 (10)
Whippet 96, 4 cyl.....(1928)	GP-66 (6)	GR-104 (2)	GR-104 (3)	GS-99 (6)	GT-83 (2)	GU-105 (3)	GV-2 (180)	GW-35 (5)
Whippet 98, 6 cyl.....(1928)	GP-65 (5)	GR-105 (3)	GR-105 (3)	GS-99 (6)	GT-132 (3)	GU-104 (5)	GV-2 (180)	GW-55 (2)
Whippet 96-A.....(1929)	GP-66 (6)	GR-142 (1)	GR-104 (3)	GS-99 (6)	GT-133 (1)	GU-105 (3)	GV-2 (180)	GW-35 (5)
Whippet 98-A.....(1929)	GP-65 (5)	GR-105 (3)	GR-105 (3)	GS-99 (6)	GT-132 (3)	GU-104 (5)	GV-2 (180)	GW-55 (2)
Wills Ste. Claire 8.....(1925)	GP-94 (2)	GQ-71 (1)	GR-139 (1)	GS-67 In. (1) GS-66 Ex. (1)	GT-116 (1)	GU-144 (1)	GV-43 (1)	GW-32 (11)
Wills Ste. Claire 6.....(1925-26)	GP-95 (1)	GQ-72 (2)	GR-140 (2)	GS-49 In. (2) GS-48 Ex. (2)	GT-134 (2)	GU-145 (3)	GV-44 (2)	GW-72 (6)
Wills Ste. Claire 8.....(1926)	GP-94 (2)	GQ-72 (2)	GR-140 (2)	GS-49 In. (2) GS-48 Ex. (2)	GT-134 (2)	GU-145 (3)	GV-44 (2)	GW-32 (11)
Willys Knight 66.....(1925)	GP-91 (5)	None	None	None	None	None	None	GW-72 (6)
Willys Knight 65.....(1925)	GP-91 (5)	None	None	None	None	None	None	GW-72 (6)
Willys Knight 66.....(1926)	GP-91 (5)	None	None	None	None	None	None	GW-72 (6)
Willys Knight 70.....(1926)	GP-66 (6)	None	None	None	None	None	None	GW-37 (10)
Willys Knight 66-A.....(1927)	GP-91 (5)	None	None	None	None	None	None	GW-72 (6)
Willys Knight 70-A.....(1927)	GP-66 (6)	None	None	None	None	None	None	GW-37 (10)
Willys Knight Std. 6-56.(1928-29)	GP-93 (2)	None	None	None	None	None	None	GW-37 (10)
Willys Kn't. Sp. 6, 70-A.(1928-29)	GP-93 (2)	None	None	None	None	None	None	GW-37 (10)
Willys Knight 66-A.....(1928-29)	GP-91 (5)	None	None	None	None	None	None	GW-72 (6)
Willys Knight 70-B.....(1929)	GP-66 (6)	None	None	None	None	None	None	GW-37 (10)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Key to Engine Abbreviations: Ans.—Anstead Cont.—Continental Lyc.—Lycoming In.—Intake Ex.—Exhaust

Digitized by Google

BEARINGS—Ball and Roller

Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the bearing is needed.
2. Follow this line across to the column pertaining to that bearing.
3. In this column opposite your car model you will find the CHILTON NUMBER for the bearing you want.
4. Look up and down this column—or any other bearing column—for the same CHILTON NUMBER. Wherever you find this same number anywhere in this table you have an interchangeable bearing. The car make opposite tells you what car uses it.

Example: Suppose a Rear-Pinion-Shaft Bearing is needed for a Chevrolet Superior AA (1927). Locate this car in the first column. Follow across to the column on Rear Pinion or Worm Shaft, which is the fourth column. Here you see the CHILTON NUMBER for this bearing is 2307. Checking through the CHILTON NUMBERS in all the columns, you will find the number 2307 many times; for instance, opposite the Buick 128 (1927), the Chandler Royal 8 (1928) and several models of the Packard. In each case, no matter where this 2307 bearing is used in the Buick, Chandler, Packard and other cars, it is interchangeable with the Rear-Pinion-Shaft Bearing on the Chevrolet Superior AA (1927).

Straight Roller Bearings Not Always Used As Complete Assemblies
In many installations only the roller assembly or the roller assembly with one race is used. Where this occurs here it is indicated by letters A, B and C immediately following the CHILTON NUMBERS at that particular installation. A means roller assembly only. B means roller assembly and outer race combination. C means roller assembly and inner race combination.

Actual Manufacturers' Numbers of 23 Different Makes of Bearings Corresponding to Every Chilton Number Here, Are Given in Separate Tables, Pages 235-240

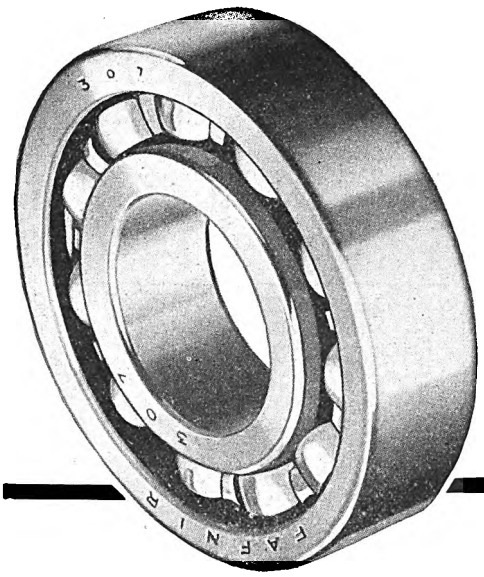
Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilot	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
Ajax.....(1925-26)	.....	7057	7063	7074	7074	.....	.....	2201	2203	.....	.....	.....	.....	2306	2306	8129B	.....	.....	6461	6381	6515	.....
Anderson 41.....(1925)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	6996	7023	6993	.....	.....	.....	.....	6602	.....
Apperson 6.....(1925)	.....	6455	6084	6088	6088	2205	.....	2201	2203	.....	2303	.....	.....	6099	6513	.....	6482	6482	6084	6432	6595	.....
Apperson Str. 8.....(1925)	.....	6455	6084	6088	6088	2205	.....	2303	2303	.....	2303	.....	.....	6099	6513	.....	6482	6482	6084	6432	6595	.....
Apperson 6.....(1926)	.....	6457	6607	6088	6088	2205	.....	2201	2203	.....	2303	.....	.....	2207	2306	.....	.....	.....	6084	6432	6609	6609
Apperson Str. 8.....(1926)	.....	6457	6607	6088	6088	2205	.....	2303	2303	.....	2303	.....	.....	.....	.....	.....	.....	.....	6084	6432	6609	6609
Auburn 4.....(1925)	.....	.....	.....	6079	6079	2205	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	7058	6386	.....	.....
Auburn 6-43.....(1925)	.....	6455	6084	6089	6089	2205	.....	.....	.....	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6055	6432	6629	.....
Auburn 8-88.....(1925)	.....	6455	6084	6088	6088	2205	.....	2201	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6084	6432	6595	.....
Auburn 4-44.....(1926-27)	.....	4307	2305	6079	6079	2205	.....	.....	.....	.....	.....	.....	.....	2209	1306	8660A	.....	.....	7058	6386	.....	.....
Auburn 6-66.....(1926-27)	.....	6457	6084	6088	6088	2205	.....	2201	.....	.....	.....	.....	.....	2209	1306	8660A	.....	.....	6055	6432	.....	.....
Auburn 8-88.....(1926)	.....	6457	6084	6088	6088	2205	.....	2201	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6084	6432	6608	.....
Auburn 6-66A.....(1927)	.....	6457	6514	6079	6079	2205	.....	2201	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7009	6986	7013	7013
Auburn 8-88.....(1927-28)	.....	6457	6084	6088	6088	2205	.....	2201	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6084	6432	6608	.....
Auburn 8-77.....(1927-28)	.....	6457	6084	6088	6088	2205	.....	2201	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7009	6986	7013	7013
Auburn 76.....(1928-29)	.....	6457	6514	6079	6079	.....	.....	2203	2203	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	7013	7013

Digitized by Google

BEARINGS—Ball and Roller—Continued

Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilot	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
Auburn 88 (1928-29)		6457	6059	6095	6095			2203	2203					2209	2306	8660A			7009	6986	7013	7013
Auburn 115 (1928-29)	7206	6457	6064	6090	6090			2203	2203					2209	2306	8660A			6064	6432	6608	
Auburn 6-80 (1929)		6457	6518	6061	6061			2203	2203					2207	2206				7009	6986	7013	7013
Auburn 8-90 (1929)		6457	6518	6061	6061			2203	2203					2209	2306	8010A	8010A	8010A	7009	6986	7013	7013
Auburn 120 (1929)		6457	6064	6097	6097			2203						2208	2306	8010A	8010A	8010A	6064	6432	6517	6517
Auburn 6-85 (1930)		6457	6059	6098	6098														7009	6986	7013	7013
Auburn 8-95 (1930)		6457	6059	6098	6098														7009	6986	7013	7013
Auburn 125 (1930)		6457	6064	6097	6097														6064	6432	6517	6517
Blackhawk L6 (1929)			7081	6124	6124														6462	6381	6079	6079
Blackhawk L8 (1929)			7081	6124	6124														6462	6381	6079	6079
Blackhawk L6 (1930)			7081	6124	6124														6462	6381	6079	6079
Blackhawk L8 (1930)			7081	6124	6124														6462	6381	6079	6079
Buick Master (1925)		4307	2309	3210	3210	2204						3206		2210	4307				508	507	4310	4310
Buick Std. (1925)		4306	2308	3210	3210	2203						3206		2209	2306				504	503	8075	8077
Buick Master (1926)		4307	2309	3210	3210	2204						3206		2210	4307				508	507	4311	4311
Buick Std. (1926)		4307	2309	3210	3210	2203						3206		2209	2306				504	503	8075	8077
Buick 115 (1927)		4306	2309	3210	3210							3206		2209	2306				504	503	8075	8077
Buick 120 (1927)		4307	2310									3206		2210	2307				508	507	2310	2310
Buick 128 (1927)		4307	2309									3206		2210	2307				508	507	2311	2311
Buick 115 (1928)		4206	2309	3210	3210							3206		2209	2306				504	503	8075	8077
Buick 120 (1928)		4307	2310	3211	3211	2204						3206		2210	2307				508	507	2310	2310
Buick 128 (1928)		4307	2310	3211	3211	2204						3206		2210	2307				508	507	2310	2310
Buick 116 (1929)		4306	2309	3210	3210									2209	2306				524	523	8075	8077
Buick 121, 129 (1929)		4307	2310	3211	3211							3206		2210	2307				528	527	8080	8080
Buick 40 (1930)																					8075	8077
Buick 50, 60 (1930)																					8080	8080
Cadillac V63 (1925)	6675	2309	2409	6213	6213	8622A								2309	2407	8272A	8216A	8216A	6146	6038	6110	6110
Cadillac 314 (1926)	6675	4309	2409	6213	6213	8622A		2203	2204	2200				2309	2407	8272A	8216A	8216A	6146	6038	6110	6110
Cadillac 314 (1927)	6675	4309	2409	6213	6213	8622A		2203	2204	2200				2309	2407	8272A	8216A	8216A	6146	6038	6110	6110
Cadillac 341A (1928)	6675	4309	2409	6213	6213	2204		2203	2204	2200				2210	2307	8028A	8216A	8216A	6146	6038	6110	6110
Cadillac 314B (1929)	6675	4309	2409	6213	6213	2204		2203	2204	2200				2210	2307	8018A	8216A	8216A	6146	6038	6110	6110
Cadillac 353 (1930)				6213	6213																	
Cadillac V16 (1930)				6213	6213																	
Case JIC (1925)							2209	2203	2203					8132B	4307	8208A						
Case X (1925)				6088	6088									6997	7023	7029	7021	7050	6002	6064	6155	
Case Y (1925)		6059	6185	6110	6110		2209	2203	2203					8072B	4307	8208A			6007	6154	6110	6110
Case Y (1926-27)		6059	6185	6110	6110		2209	2203	2203					8072B	4307	8208A			6007	6154	6110	6110
Case JIC (1926-27)							2209	2203	2203					8072B	4307	8208A						
Chandler 33 (1925)		6059	6167	6110	6110				2203					2308	2307		2306	2307	6064	6432	2310	2310
Chandler 35 (1926)		6059	6167	6110	6110				2203					2308	2307				6064	6432	2310	2310
Chandler Big 6 (1927)		6059	6167	6110	6110				2203					2308	2307				6064	6432	2310	2310
Chandler Royal 8 (1927)		6059	6167	6110	6110				2204					2308	2307				6064	6432	2310	2310
Chandler Spec. 6 (1927)		6561	6632	6096	6096			2203	2203					2208	2306				6513	6380	6135	
Chandler Std. 6 (1927)		6552	6632	6096	6096			2203	2203					2207	2306				7009	6986	6564	
Chandler Big 6 (1928)		6059	6167	6110	6110			2201	2204					2308	2307				6064	6432	2310	2310
Chandler Royal 8 (1928)		6059	6167	6110	6110			2201	2204		7182			2308	2307				6064	6432	2310	2310
Chandler Spec. 6 (1928)		6632	6185	6096	6096			2203	2203					2308	2306				7009	6986	6564	
Chandler Spec. Invincible 6 (1928)		6632	6185	6096	6096			2203	2203					2308	2306				7009	6986	6564	
Chevrolet K (1925)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Chevrolet V (1926)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Chevrolet Superior AA (1927)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Chevrolet AB (1928)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Chevrolet (1929)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Chrysler 6B (1925)		7057	7091	7074	7074									2209		8660A			7058	6381	6636	
Chrysler 58 (1926)		6483	6521											2209	2306	8660A					2308	2308
Chrysler 60 (1926)		6483	6521								2302			2209	2306	8660A					2308	2308
Chrysler 70 (1926)		6561	6632	7074	7074						4302			2209	2307	8660A			7058	6381	6636	
Chrysler 80 (1926)		7093	7093	6105	6105	2204					4302			8072B	2307	8018A	8018A	8018A	6603	6481	6159	
Chrysler 50 (1927)		6483	6521	7070	7070			2201	2203					2206	2305				7011	6986	6526	
Chrysler 60 (1927)		6552	6632	7074	7074						2302			2209	2306				7010	6370		6525
Chrysler 70 (1927)		6552	6632	7074	7074			2201	2203		2302			2209	2307				7010	6370	6525	
Chrysler 80 (1927)		7093	7093	6105	6105	2204		2201	2203		4302			2210	2307	8018A	8018A	8018A	6603	6481	6159	

Digitized by Google



FAFNIR BALL BEARINGS

. . . for every replacement job!

. . . carried in stock by these jobbers

ALABAMA

Birmingham—Southern Bearing & Parts Co., 305 S. 20th St.
Lawson Auto Parts Co., 208 S. 21st St.

CALIFORNIA

Los Angeles—Pacific Ball Bearing Co., 415 W. Pico St.
SUBS Auto Gear & Supply Co., 136 B Street, San Diego
Auto Gear & Supply Co., El Centro
Haase Auto Parts Co., 6016 Pacific Blvd., Huntington Park
Automotive Sales Co., Inc., 1337 So. Flower St., Los Angeles
Automotive Sales Co., Inc., 1309 Van Ness, Fresno
Automotive Sales Co., Inc., 6501 Sunset Blvd., Hollywood
Automotive Sales Co., Inc., 348 Orange St., Redlands
Automotive Sales Co., Inc., 3rd and French St., Santa Ana
Automotive Sales Co., Inc., 1136 So. Pacific St., San Pedro
Automotive Sales Co., Inc., 1345 Locust Ave., Long Beach
Automotive Sales Co., Inc., 900 18th St., Bakersfield
San Francisco—F. Somers Peterson Co., 57 California Ave.
Lacy Automotive Parts Co., Salinas
Penniman & Richards, San Jose
Inwood & Green, Petaluma
Motor Parts Company, Oakland
Stockton Bearing & Parts Co., Stockton
Calusa Implement Company, Calusa
Hurst Bros., Marysville

COLORADO

Colorado Springs—Glen Shultz, 208-212 E. Colorado Ave.
M. L. Foss, Corner 19th and Arapahoe St.
Buda Engine Parts Co., 1023 Broadway

CONNECTICUT

Bridgeport—Standard Motor Parts Co., 631 Fairfield Avenue
Hartford—Kenyon Bearings & Auto Parts Co., Inc., 191 Church Street
Grinold Auto Parts, Inc., 65 Elm Street
Middletown—Standard Auto Parts Co., 614 Main St.
New Haven—Connecticut Bearings Co., 294 York St.

DISTRICT OF COLUMBIA

Washington—Phelps Roberts Corp., 1818—14th St., N. W.

FLORIDA

Daytona Beach—Consolidated Automotive Co., 114 E. Fairview Avenue
Gainesville—Baird Hardware Company, 802 1st Ave., S.
Consolidated Automotive Co., 737 W. University Ave.
Jacksonville—Consolidated Automotive Co., 1131-9 W. Forsyth Street
Miami—Frank T. Budge, 5 East Flagler Street
Miami Auto Repair Shop
Orlando—Central Machine Parts Co., 200 W. Robinson Ave.
Consolidated Automotive Co., 55 W. Pine Street
Pensacola—Girdlestone Auto Supply Co., 106-8 N. Tarragona Street
St. Petersburg—Marine Ways Machine Co., 236 Seventh Avenue, S.
Tampa—Moody & Wetherell, Inc., 920 Twigg Street
Wholesale Auto Supply House, 309 Washington St.
W. Palm Beach—Consolidated Automotive Co., 527 Datura Street

GEORGIA

Albany—Keenan Auto Parts Co., 112 Front Street
Atlanta—Southern Bearings & Parts Co., 449 Peachtree St.
Savannah—Allen Parts Company, 207 W. Liberty St.

IDAHO

Boise—Idaho Elec. Supply Co., 911 Main Street

ILLINOIS

Chicago—Auto Parts & Gear Co., 2392 Milwaukee Ave.
Fafnir Bearing Company, 806 W. Washington Blvd.
General Auto Parts, 4547 Northwestern Avenue
Guaranteed Gear Service Co., 1714 S. Michigan Ave.
H & E Standard Auto Parts Co., 3925 Irving Park Blvd.
Ideal Auto Supply Co., 4750 W. Washington Blvd.
Jasper Auto Parts Company
Motor Car Supply Co., 1451-55 Michigan Ave.
Motor Car Supply Company, 3124 Lawrence Ave.
L. C. Smith Bearings Co., 2120 S. Michigan Ave.
Southside Unit Parts Co., 6515 Cottage Grove Ave.
Triangle Machine Works, 3650 N. Ashland Ave.
Unzid Motor Supply Co., 7710 S. Halsted Street
West Side Unit Parts Co., 3941 W. Washington Blvd.
Cicero—Slager & Son
Elgin—Phillips Auto Supply Co., 191 Division St.
Highland Park—Haak's Auto Supply Company
Kankakee—Automotive Supply Company
Maywood—Schroeder & Son, 11 N. Second Avenue
Quincy—Clough-Racine Company

INDIANA

Anderson—John Garrett & Company, 17 W. Ninth St.
Ft. Wayne—Piston Service Inc., 227 W. Main Street
Gary—Triple H. Auto Parts Co., 632 Washington St.
Hammond—United Motor Parts Co., 620 Sohl Street

IOWA

Cedar Rapids—Cedar Rapids Auto Supply Co., 613 Second Avenue, E.
Davenport—Sieg Company, 500-516 Iowa Street
Des Moines—Carl Youngstrom Co., 1312 Grand Ave.
Fort Dodge—Fort Dodge Machine & Supply Co., 612 First Avenue, S.
Mason City—J. B. Snyder Co., 119 East State St.
Waterloo—Repass Automobile Co., 170 Park Ave., W.

KANSAS

Topeka—Southwick Automotive Supply Co.

KENTUCKY

Owensboro—The Wright Machine Company

MARYLAND

Baltimore—Mitchell & Dale, 24 W. Biddle Street
Hagerstown—The Maryland Motor Company 56-62 W. Franklin Street

MASSACHUSETTS

Boston—Bearings Specialty Company, 711 Beacon St.
Northampton—The Rubber Store, Cor. Court & Gothic Sts.
Springfield—Parmenter Company, 812 Main Street

MICHIGAN

Detroit—Detroit Ball Bearing Company, 3958 Cass Ave.
Flint—Formcrook Auto Supply, 1500-02 N. Saginaw St.
Fort Huron—Piston Service Co., 505 Huron St.
Holland—Standard Motor Parts Co., 182 River St.

MINNESOTA

Mankato—National Bushings & Parts Co., 609 South Front St.
Minneapolis—National Bushings & Parts Co., 1221-1225 Harmon Place
Rochester—National Bushings & Parts Co., 12 S. W. 4th Street
St. Paul—National Bushings & Parts Co., 141-5 West 7th Street

MISSISSIPPI

Clarksdale—Johnstons Auto Parts Company

MISSOURI

Kansas City—Dayton Auto Parts Co., 1625 McGee St.
Springfield—Herman-Brownlow Company
St. Louis—Auto Parts Company

MONTANA

Butte—Crawley Motor Supply Co., 220 E. Broadway
Great Falls—Starter & Battery Co, 320 First Ave.

NEW JERSEY

Camden—General Auto Supply Co., 1176 Kaighn Ave.
Newark—Fafnir Bearing Co., 271 Central Ave.
Trenton—Ufert Auto Parts Service, 25 Barnes Street
Vineland—Automotive Replacement Parts Co.

NEW MEXICO

Albuquerque—R. L. Harrison Co., 123 N. Fourth St.

NEW YORK

Albany—Albany Spring Service, 425 Central Avenue
Brooklyn—Consolidated Motor Parts, Inc. 1640 Bedford Avenue
Buffalo—Vulcan Supply Company, 1067 Main Street
L. I. City—Shapse Auto Radiator Co., 65-67 Prospect Street
New York City—G. & B. Motor Parts Co., 941 Eighth Avenue
Niagara Falls—Gebell Auto Parts Co., 1416 Pine St.
Port Richmond—New York Motor Supply Co. 112-14 Richmond Avenue
Poughkeepsie—Pease Electrical Service
Rochester—Gordon Motor Parts, Inc., 30-36 Joseph Ave.
Syracuse—Group Parts, Inc., 222 Harrison Street
Utica—Genuine Auto Parts Co.
Watertown—Thomas Hardman Corp., 166 Arsenal St.

NORTH CAROLINA

Charlotte—Southern Bearing & Parts Co. 12 S. Poplar Street
Durham—Motor Bearings & Parts Co., 407 E. Chapel Hill
Goldsboro—Standard Automotive Parts Co. E. Center Street, N.
Greensboro—Motor Bearing & Parts Co.
Raleigh—Motor Bearing & Parts Co. Dixie Bldg., S. Salisbury Street
Winston-Salem—Southern Bearings & Parts Co.

OHIO

Cincinnati—Automotive Bearings & Equipment Co. 205-7 E. Eighth Street
Ohio Ball Bearing Company, 330 E. Eighth Street
Columbus—G. W. Holmes Company, 196-98 E. Gay St.
Cleveland—Cleveland Ball Bearing Company 1369 West 9th Street
Dayton—M. D. Larkin Supply Co., East 3rd Street

OKLAHOMA

Oklahoma City—Sharp Auto Supply Co., 121-123 W. 8th Street

OREGON

Portland—Smith Auto Parts Co., 15th & Burnside Avenue
Salem—B. & W. Parts Store, 445 Chemeketa Street

PENNSYLVANIA

Allentown—F. Hersh Hardware Co., Hamilton St.
Altoona—Motor Parts Sales & Service Co. 712 Nineteenth Street
Hazelton—Automobile Supply Company
Johnstown—Johnstown Brg. & Supply Co., 77-79 Baumer Street
Lancaster—Reilly Bros. & Raub, 44-46 N. Queen St.
Philadelphia—Auto Gear & Parts Co., 1728-30 Fairmount Avenue
E. P. Rotzell Company, 1633 Fairmount Avenue
Lebanon—Whittle's Machine & Spring Works
Pittsburgh—Condon Bearing & Supply Co., 4642 Baum Blvd.
Motive Parts Co. of Penna., 6314 Penna. Ave.
Pottsville—Rewall Auto Supply Co., 109-15 Nichols Street
Wilkes-Barre—Kitsee Auto Store, 60 N. Main St.

SOUTH CAROLINA

Columbia—Jenkins Automotive Parts Co., Inc. 1519 Sumter Street

TENNESSEE

Chattanoogs—Harts Automotive Parts Co., 801 Chestnut Street at 8th
Knoxville—Service Auto Parts Company, Emory Park
Memphis—U. S. Battery & Electrical Co. 383 Monroe Avenue
Nashville—Automotive Parts Co., Inc., 1601 Church Street

TEXAS

Beaumont—C. H. Mountjoy Parts Co., Main & Pine Streets
Simmonds Motor Supply Co., 345 Pine Street
Houston—C. H. Mountjoy Parts Co., 1420 Dallas Ave.
Corpus Christie—C. H. Mountjoy Parts Co.
San Antonio—C. H. Mountjoy Parts Co., 514 Fifth St.
McAllen—C. H. Mountjoy Parts Co., Highway at Canal
El Paso—Smith Machine Company, 211 S. Kansas St.

UTAH

Salt Lake City—Felt Auto Parts Company 643-45 S. State Street

VERMONT

Brattleboro—Brattleboro Battery & Ignition Co., Inc., 29 Flat Street

VIRGINIA

Lynchburg—Southern Parts & Bearing Co., 617 Main Street
Richmond—Standard Parts Corp., 1306 W. Broad St.
Roanoke—Shepard's Auto Supply Co.

WASHINGTON

Seattle—Hoge Piston & Ring, Inc., 520 E. Pike St.
Spokane—Auto Gear & Axle Co., 1103 W. First St.
Tacoma—Hoge Piston & Ring, Inc., 714 St. Helens St.

WEST VIRGINIA

Williamson—Williamson Supply Company

WISCONSIN

Madison—Madison Auto Parts & Mach. Co., 1475 Butter Street
Manitowoc—Auto Parts Co., 1018 S. Tenth Street
Racine—Racine Supply Company, 337 Main Street

WYOMING

Casper—Wyoming Automotive Co., 500 E. Yellowstone

THE FAFNIR BEARING CO. FAFNIR MOST COMPLETE LINE OF PRECISION BALL BEARINGS IN U.S.A. NEW BRITAIN, CONN.

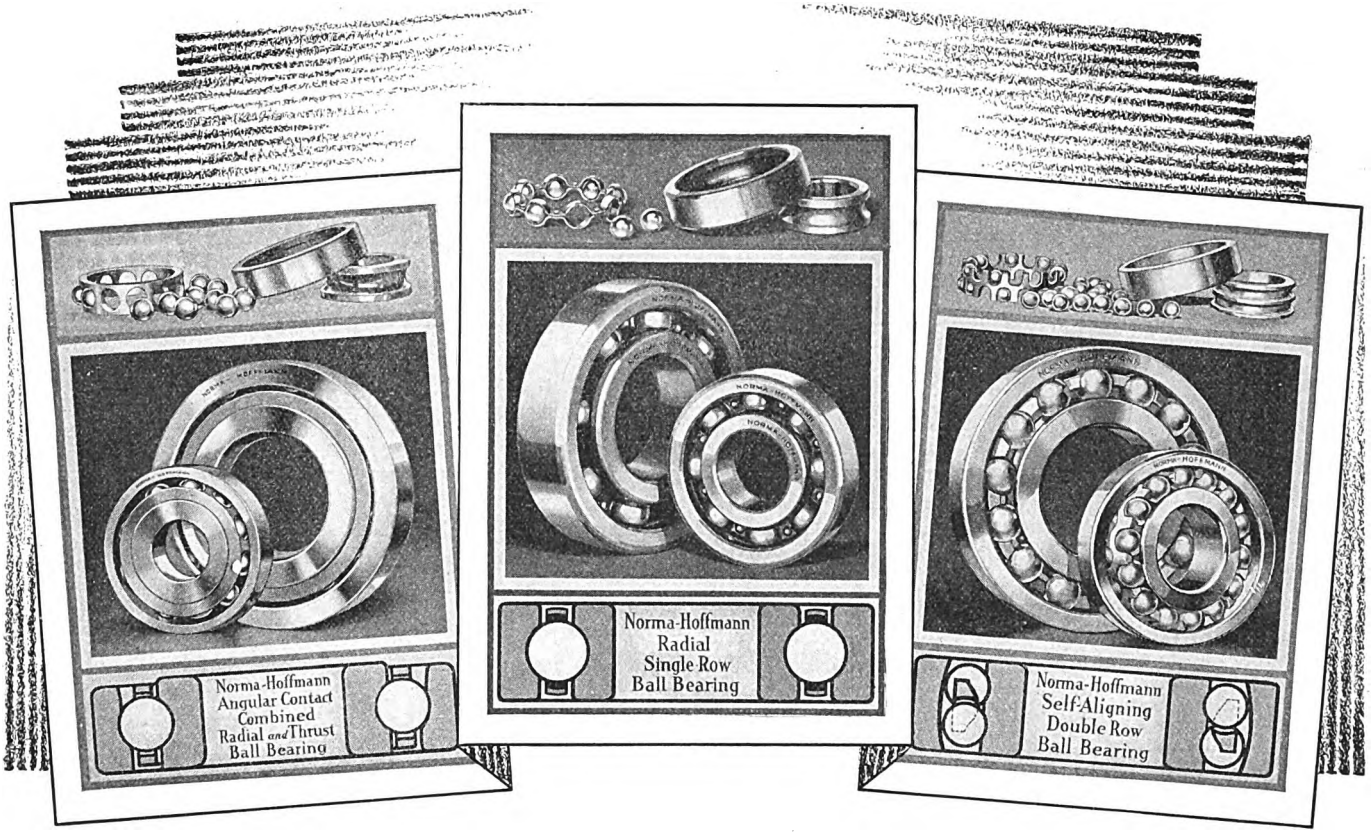
Digitized by Google

BEARINGS—Ball and Roller—Continued

Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilot	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
Chrysler 52 (1928)	.....	6483	6521	7070	7070	.....	.....	2201	2203	.....	.....	.....	.....	2206	2305	.....	.....	.....	7011	6986	6526	.....
Chrysler 62 (1928)	.....	6552	6632	6109	6109	.....	.....	.....	.....	.....	2302	.....	.....	2209	2307	8060A	.....	.....	7010	6370	6525	.....
Chrysler 72 (1928)	.....	6552	6632	6109	6109	.....	.....	.....	.....	.....	2302	.....	.....	2209	2307	8060A	.....	.....	7010	6370	6525	.....
Chrysler Imp. 80 (1928)	.....	4307	2310	6109	6109	.....	.....	2201	2203	.....	2302	.....	.....	2210	2307	8018A	8018A	8018A	6603	6481	2310	2310
Chrysler 65 (1929)	.....	6552	6632	6109	6109	.....	.....	.....	2203	.....	.....	.....	.....	2209	2307	8062A	.....	.....	7010	6370	7017	.....
Chrysler 66 (1929)	.....	6566	6553	7070	7070	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	7014	7014
Chrysler 75 (1929)	.....	6552	6632	6109	6109	.....	.....	.....	.....	.....	2302	.....	.....	2209	2307	8062A	.....	.....	7010	6370	7017	.....
Chrysler Imp. 80 (1929)	.....	4307	2310	6109	6109	.....	.....	.....	2203	.....	2302	.....	.....	2210	2307	8018A	8018A	8018A	6603	6481	2310	2310
Chrysler 66 (1930)	.....	6553	6553	6097	6097	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	7014	7014
Chrysler 70 (1930)	.....	6632	6632	6109	6109	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7016	6370	6074	6074
Chrysler 77 (1930)	.....	6632	6632	6109	6109	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7016	6370	6074	6074
Cleveland 31 (1925)	.....	7042	7059	6996	6996	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7009	6986	6564	.....
Cleveland 43 (1925)	.....	7050	7090	7074	7074	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6513	6380	6135	.....
Cleveland 31 (1926)	.....	6451	6561	6079	6079	.....	.....	115	2203	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	6564	.....
Cleveland 43 (1926)	.....	6561	6632	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	2208	2306	.....	.....	.....	6513	6380	6135	.....
Cord (1930)	7204	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6097	6120	6145	6381
Cunningham V6 (1925)	.....	7102	S168B	6214	6214	2205	.....	.....	.....	2200 U. 2203 L.	.....	.....	.....	6094	6094	7050	.....	.....	6146	6038	6110	6110
Cunningham V6 (1926)	.....	7102	S168B	6214	6214	2205	.....	2204	2204	2200 U. 2203 L.	.....	.....	.....	6094	6094	8272A	8216A	8216A	6146	6038	6110	6110
Cunningham V7 (1927)	.....	7102	S168B	6214	6214	2205	2209	2204	2204	2200	.....	.....	.....	6094	6094	8272A	8216A	8216A	6146	6038	6110	6110
Cunningham V7 (1928)	.....	7102	.....	6214	6214	2205	.....	2204	2204	2200	.....	.....	.....	6094	6094	8272A	8216A	8216A	6146	6038	6110	6110
Cunningham V8 (1929)	.....	7102	.....	6214	6214	2205	.....	2204	2204	2200	.....	.....	.....	6094	6094	8272A	8216A	8216A	6146	6038	6110	6110
Cunningham 8 (1930)	.....	7102	.....	6214	6214	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6146	6038	6110	6110
Davis 90 (1925-26)	.....	6455	7065	6088	6088	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	7058	6381	6605	.....
Davis 91 (1925-26)	.....	6455	7065	6088	6088	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	7058	6381	6605	.....
Davis 92 (1926)	.....	6457	6064	6088	6088	2205	.....	2203	.....	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7058	6381	6605	.....
Davis 93 (1926)	.....	.....	.....	.....	.....	2205	.....	2203	.....	.....	.....	.....	.....	2207	2306	8660A	.....	.....	.....	.....	.....	.....
Davis 92 (1927)	.....	6457	6064	6088	6088	.....	.....	.....	.....	.....	2302	.....	.....	2207	2306	8660A	.....	.....	7058	6381	6605	.....
Davis 94 (1927)	.....	6456	6513	6079	6079	.....	.....	2203	2203	.....	2302	.....	.....	2207	2306	8660A	.....	.....	7009	6986	7013	7013
Davis 98 (1927)	.....	6457	6064	6088	6088	.....	.....	2201	2204	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7058	6381	6605	.....
Davis 94 (1928)	.....	6456	6513	6079	6079	.....	.....	.....	.....	.....	2302	.....	.....	2207	2306	.....	.....	.....	7009	6986	7013	7013
Davis 99 (1928)	.....	6457	6064	6088	6088	.....	.....	2201	2204	.....	.....	.....	.....	2209	2306	.....	.....	.....	7058	6381	6605	.....
Davis 98 (1928)	.....	6457	6064	6088	6088	.....	.....	2201	2204	.....	.....	.....	.....	2209	2306	.....	.....	.....	7058	6381	6605	.....
De Soto (1929)	.....	6566	6553	7070	7070	.....	.....	.....	2203	.....	.....	.....	.....	2207	2305	.....	.....	.....	7011	6986	7014	7014
De Soto 6 (1930)	.....	6553	6553	6097	6097	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	7014	7014
De Soto 8 (1930)	.....	6553	6553	6097	6097	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	7014	7014
Diana Str. 8 (1926)	.....	6457	6084	6088	6088	2205	.....	.....	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	7058	6381	6605	6605
Diana Str. 8 (1927)	.....	6455	6084	6088	6088	.....	.....	2203	2203	2200	.....	.....	.....	2209	2306	.....	.....	.....	7058	6381	6605	6605
Diana (1928)	.....	6457	6064	6088	6088	.....	.....	2203	2203	2200	.....	.....	.....	2209	2306	.....	.....	.....	7058	6381	6605	.....
Dodge Brothers 4 (1925)	.....	7057	7090	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8587A	8587A	6518	6380	6153	6153
Dodge Brothers 4 (1926)	.....	7057	7090	6105	6105	2304	.....	.....	.....	.....	.....	.....	.....	4207	2308	.....	8587A	8587A	6518	6380	6153	.....
Dodge Senior 6 (1927)	.....	7057	7090	6105	6105	S007A	.....	.....	2203	.....	7182	.....	.....	2209	2308	8018A	8018A	8018A	6518	6380	6153	.....
Dodge Bros. 4, before March (1927)	.....	7057	7090	6105	6105	2304	.....	.....	2203	.....	.....	.....	.....	2207	2308	.....	8587A	8587A	6518	6380	6153	.....
Dodge Bros. 4, after March (1927)	.....	7057	7090	6105	6105	2304	.....	.....	2203	.....	.....	.....	.....	2207	2308	.....	8587A	8587A	6518	6380	6153	.....
Dodge Brothers Senior 6 (1928)	.....	7063	S166B	6100	6100	S007A	.....	.....	2203	.....	7182	.....	.....	2209	2308	8018A	8018A	8018A	6518	6380	6153	.....
Dodge 4-128 (1928)	.....	7063	7063	6100	6100	.....	.....	.....	2203	.....	.....	.....	.....	2209	2308	.....	8587A	8587A	7012	6985	6636	.....
Dodge Std. 6 (1928)	.....	7063	S166B	6100	6100	S007A	.....	.....	.....	.....	.....	.....	.....	2209	2308	8018A	8018A	8018A	7012	6985	6636	.....
Dodge Brothers Victory 6 (1928)	.....	7063	S166B	6100	6100	S007A	.....	.....	2203	.....	.....	.....	.....	2209	2308	8018A	8018A	8018A	7012	6985	6636	.....
Dodge Brothers Senior (1929)	.....	4307	4205	6100	6100	S007A	.....	.....	2203	.....	2303	.....	.....	S068B 2209	2308	8018A	8018A	8018A	6518	6380	6153	.....
Dodge Brothers Std. 6 (1929)	.....	4307	S166B 4205	6100	6100	S007A	.....	.....	2203	.....	.....	.....	.....	2209	2307	8018A	8018A	8018A	7011	6986	7017	7017
Dodge DC-8 (1930)	.....	6553	6553	6097	6097	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	7014	7014
Dodge 6-DD and Senior (1930)	.....	6553	6553	6097	6097	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	7014	7014
Dorris (1925)	6669	6202	6556	6214	6214	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6146	6038	.....	6785
Duesenberg Str. 8 (1925)	.....	.....	.....	.....	.....	8270A	.....	.....	.....	.....	.....	.....	.....	.....	.....	9317A	9318A	9318A	.....	.....	.....	.....
Duesenberg Str. 8 (1926)	.....	4310	2311	2212	4212	8270A	2210	2201	2203	2200	2304	.....	.....	2211	2407	9317A	9318A	9318A	2308	2405	.....	2311
Duesenberg Str. 8 (1927)	.....	4310	2311	2212	2212	8270A	2210	2201	2203	2200	2204	.....	.....	2209	2308	9317A	9318A	9318A	2308	2405	.....	2311
Duesenberg Str. 8 (1928)	.....	.....	.....	.....	.....	8270A	.....	.....	.....	.....	.....	.....	.....	.....	.....	9317A	9318A	9318A	.....	.....	.....	.....
Duesenberg Str. 8, Front Drive (1929)	7204	4310	2311	6099	6099	.....	2210	2203	2204	2200	2204	.....	.....	2209	2308	.....	9319A	9319A	6097	6118	6145	6481
du Pont D (1925)	.....	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6601	6479	7074	7074

Digitized by Google

The SERVICEABLE THREE
for the repairmans profit



"NORMA-HOFFMANN"
PRECISION BEARINGS

Three standard automotive types, built to PRECISION standards —which mean extra speed-ability, extra load-ability, extra-service-ability. BETTER bearings, for the man who is working for BETTER and BIGGER BUSINESS based on satisfactory service to his trade.

Light Series . . . . . S.A.E. Sizes, 200 to 222
Medium Series . . . . S.A.E. Sizes, 300 to 322
Heavy Series . . . . . S.A.E. Sizes, 403 to 420

Write for Price List 925.

NORMA-HOFFMANN BEARINGS CORPORATION STAMFORD, CONN., U.S.A.

Digitized by Google

BEARINGS—Ball and Roller—Continued

Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilo	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
du Pont D.....(1926)	.....	.....	.....	.....	.....	2205	.....	2203	2203	2200	.....	.....	.....	2308	0723	.....	.....	.....	.....	.....	.....	.....
du Pont E.....(1927)	.....	.....	.....	.....	.....	2205	.....	2203	2203	2200	.....	.....	.....	2308	2307	.....	.....	.....	.....	.....	.....	.....
du Pont E, F.....(1928)	.....	.....	.....	.....	.....	2205	.....	2203	2203	2200	.....	.....	.....	2308	2307	.....	.....	.....	.....	.....	.....	.....
du Pont E.....(1929)	.....	.....	.....	.....	.....	2205	.....	2203	2203	2200	.....	.....	.....	2308	2307	.....	.....	.....	.....	.....	.....	.....
Durant 4.....(1926)	.....	4305	2307	7074	7074	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	6998	6382	6564	.....
Durant D55.....(1928)	.....	6483	6555	2208	2208	.....	.....	.....	.....	.....	.....	.....	.....	2207	2206	.....	.....	.....	7011	6986	7187	.....
Durant 65.....(1928)	.....	6483	6555	2208	2208	.....	.....	.....	.....	.....	.....	.....	.....	2207	2206	.....	.....	.....	7011	6986	7187	.....
Durant 75.....(1928-29)	.....	6555	6633	7074	7074	.....	.....	2203	.....	.....	.....	.....	.....	4207	2306	4204	.....	.....	6458	6378	6634	.....
Durant 4-40.....(1929)	.....	6483	7189	2208	2208	.....	.....	.....	.....	.....	.....	.....	.....	2305	2206	.....	.....	.....	7011	6986	7187	.....
Durant 6-60.....(1929)	.....	6483	6555	2208	2208	.....	.....	.....	.....	.....	.....	.....	.....	2305	2206	.....	.....	.....	7011	6986	7187	.....
Durant 66.....(1929)	.....	6483	6555	2208	2208	.....	.....	.....	.....	.....	.....	.....	.....	4204	2306	.....	.....	.....	7011	6986	7187	.....
Durant 70.....(1929)	.....	6555	6633	7074	7074	8002A	.....	2203	.....	.....	.....	.....	.....	4204	2306	.....	.....	.....	6458	6378	6634	.....
Durant 614.....(1930)	.....	6551	6551	6080	6080	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	7015	7015
Durant 617.....(1930)	.....	7046	6561	7074	7074	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6458	6381	6564	.....
Elcar 4-40.....(1925)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	6517	6004	6602	.....
Elcar 6-50.....(1925)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	6517	6004	6602	.....
Elcar 6-60.....(1925)	.....	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	6062	6004	.....	.....
Elcar 8-80.....(1925)	.....	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	6146	6038	.....	.....
Elcar 4-55.....(1926-27)	.....	4207	2305	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	8660A	.....	.....	6517	6433	6602	.....
Elcar 6-65.....(1926)	.....	7090	7033	6032	6099	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	8660A	.....	.....	7058	6381	6605	.....
Elcar 8-81.....(1926)	.....	4308	2306	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6601	6480	6156	4310
Elcar 6-70.....(1927)	.....	4306	2304	6079	6079	.....	.....	2203	.....	.....	.....	.....	.....	2207	2306	8660A	.....	.....	7011	6986	.....	.....
Elcar 8-82.....(1927)	.....	4307	2305	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6517	6381	6156	.....
Elcar 8-90.....(1927)	.....	4308	2306	6105	6105	.....	.....	2203	.....	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6517	6381	6156	.....
Elcar 6-70.....(1928-29)	.....	4306	2304	6079	6079	.....	.....	2203	2203	.....	.....	.....	.....	2207	2306	.....	.....	.....	7011	6986	.....	.....
Elcar 8-78.....(1928-29)	.....	4307	2305	6096	6096	.....	.....	2203	2203	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	6652	.....
Elcar 8-82.....(1928-29)	.....	4307	2305	6096	6096	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6517	6381	6605	.....
Elcar 8-91.....(1928)	.....	4308	2306	6105	6105	.....	.....	2203	.....	.....	.....	.....	.....	2209	2306	.....	.....	.....	6517	6478	6156	.....
Elcar 8-92.....(1928)	.....	4308	2306	6105	6105	.....	.....	2203	.....	.....	.....	.....	.....	2209	2306	.....	.....	.....	6517	6478	6156	.....
Elcar 75.....(1929)	.....	6566	6553	7071	7071	.....	.....	2203	2203	.....	.....	.....	.....	2207	2305	.....	.....	.....	7011	6986	6516	.....
Elcar 95, 96.....(1929)	.....	4307	2305	6096	6096	.....	.....	2203	2203	.....	6986	.....	.....	2207	2305	.....	.....	.....	7011	6986	6080	6080
Elcar 120.....(1929)	.....	4308	2306	6105	6105	.....	.....	2203	2203	.....	6986	.....	.....	2209	2306	.....	.....	.....	6517	6381	6156	.....
Elcar 6-75.....(1930)	.....	6566	6553	7071	7071	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	6516	.....
Elcar 95, 96.....(1930)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	6080	6080
Elcar 130.....(1930)	.....	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6381	6156	.....
Erskine 50.....(1927)	7198	7021	7050	7026	7026	8007A	.....	.....	.....	.....	2302	.....	.....	2206	2305	.....	.....	.....	7002	6986	6522	.....
Erskine 6-51.....(1928)	7198	7050	6556	6080	6080	8007A	.....	.....	.....	.....	2302	.....	.....	2206 2207	2305	.....	.....	.....	6998	6986	.....	6523
Erskine 52.....(1929)	7198	7050	6556	6080	6080	.....	.....	.....	.....	.....	.....	.....	.....	2207	2305	.....	.....	.....	6998	6986	.....	6523
Erskine Dynamic.....(1930)	7193	6550	6551	6075	6075	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7008	6986	6515	.....
Essex 6.....(1925)	.....	6484	6083	6062	6062	.....	.....	.....	.....	.....	.....	.....	.....	8129B	8128	.....	.....	.....	6441	6433	6137	.....
Essex.....(1926)	.....	6484	6083	6062	6062	2205	3207	115	2203	.....	.....	.....	.....	8129B	8128	.....	.....	.....	6441	6433	6137	.....
Essex Super 6.....(1927)	.....	6486	6552	6062	6062	2202	3207	.....	2203	.....	.....	.....	.....	2207 8129B	8128	.....	.....	.....	6441	6433	6137	.....
Essex Super 6.....(1928)	.....	6486	6552	6062	6062	2202	3207	115	2203	.....	.....	.....	.....	2207	8128	.....	.....	.....	6441	6433	6137	.....
Essex Challenger.....(1929)	.....	6486	6552	6062	6062	2202	2207	115	2203	.....	.....	.....	.....	2207	8128	.....	.....	.....	6441	6433	6137	.....
Essex Challenger.....(1930)	.....	7048	6553	6061	6061	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	6599	.....
Falcon Knight 10.....(1927-28)	7195	4306	2307	6096	6096	.....	.....	2202	2203	.....	2202	.....	.....	2208	2307	.....	.....	.....	7011	6986	2308	2308
Falcon Knight 12.....(1928-29)	6369	7046	6561	6096	6096	.....	.....	2202	2203	.....	2202	.....	.....	2208	2307	.....	.....	.....	6513	6380	7013	7013
Flint E55.....(1925-26)	.....	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6598	6479	.....	6139
Flint 60.....(1926)	.....	4306	2308	7074	7074	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	6998	6382	6564	6564
Flint 80.....(1926)	.....	4307	2407	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2210	2307	.....	.....	.....	6598	6479	6139	6139
Flint Jr.....(1926)	.....	7189	6483	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6998	6986	7187	.....
Flint 60.....(1927-28)	.....	4306	2308	7074	7074	.....	.....	2202	2203	.....	.....	.....	.....	2207	2306	.....	.....	.....	6998	6382	6564	6564
Flint 80.....(1927-28)	.....	4307	2407	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2210	2307	.....	.....	.....	6598	6479	6139	6139
Flint Jr.....(1927)	.....	6483	7189	2208	2208	.....	2207	2202	2203	.....	2302	.....	.....	2207	2306	.....	.....	.....	6998	6386	7187	7187
Ford T.....(1925)	.....	.....	.....	.....	.....	.....	.....	2201	2203	.....	.....	.....	.....	.....	.....	.....	.....	.....	6999	6987	.....	.....
Ford T.....(1926)	.....	.....	.....	.....	.....	.....	.....	2201	2203	.....	.....	.....	.....	.....	.....	.....	.....	.....	6999	6987	.....	.....
Ford T.....(1927)	.....	.....	.....	.....	.....	.....	.....	2201	2203	.....	.....	.....	.....	.....	.....	.....	.....	.....	6999	6987	.....	.....
Ford A.....(1928)	7177	7191	7191	7181	7181	.....	.....	2203	2204	.....	.....	7177	7177	2208	2306	.....	.....	.....	7184	7185	.....	.....
Ford A.....(1929)	7177	7191	7191	7181	7181	.....	.....	2203	2204	.....	.....	7177	7177	2208	2306	.....	.....	.....	7184	7185	.....	.....
Ford A.....(1930)	7178	7191	7191	7181	7181	.....	.....	115	2203	.....	.....	6100	6100	.....	.....	.....	.....	.....	7184	7185	.....	.....

Digitized by Google

BALL BEARINGS

PROPELLER SHAFT BOXES

SKF

ROLLER BEARINGS

"ATLAS" BALLS

When You Need Ball Bearings See the Nearest Distributor Below—

Aberdeen, Wash., Caldwell Bearing & Parts Co.
Akron, Ohio, The Hardware & Supply Co., 475 S. High St.
Albany, N. Y., Peerless Auto Parts Co.
Alexandria, La., The Crawford Company, Inc.
Amarillo, Texas, Amarillo Auto Parts Co.
Andover, Va., Central Supply Co.
Atchison, Kan., P. L. Kautz.
Atlanta, Ga., Southern Bearings & Parts Co., Inc.
Austin, Texas, Tips Engine Works-Heiserman Industries, Inc.
Baltimore, Md., K. & G. Sales Co.
Bartlesville, Okla., J. E. Curtis Supply Co.
Bay City, Mich., Northern Automotive Parts Co.
Beaumont, Texas, Westberg's, Inc.
Beckley, West Va., Beckley Machine & Electric Co.
Bellingham, Wash., Automotive Parts Service, 1319 Elk St.
Bessemer, Ala., Long-Lewis Hardware Co.
Binghamton, N. Y., Whipple's.
Birmingham, Ala., Long-Lewis Hardware
Birmingham, Ala., Owen-Richards Co., 2224 Fifth Ave.
Bluefield, W. Va., Superior Supply Co.
Boise, Idaho, Idaho Equipment Company.
Boston, Mass., Bearings & Motor Equip. Co.
Boston, Mass., Chandler & Farquhar Co.
Brownwood, Texas, Carlson Battery & Electric Company.
Brooklyn, N. Y., Consolidated Motor Parts, Inc., Grand Ave. & Dean St.
Buffalo, N. Y., H. D. Taylor Co.
Burlington, Ia., Skerik Parts Service Co.
Butte, Mont., Crawley Motor Supply Co.
Charleston, S. C., H. Steenken & Co.
Charleston, W. Va., Central Sales Co.
Charlotte, N. C., Southern Bearings & Parts Co., Inc.
Chicago, Ill., Berry Bearing Co., 2711 Michigan Ave.
Cincinnati, Ohio, SKF Industries of New Jersey, 136 E. Court St.
Cincinnati, Ohio, The Ohio Ball Bearing Co. of Cincinnati.
Cleveland, Ohio, Ohio Ball Bearing Co., 6531 Euclid Ave.
Columbia, S. C., Gibbes Machinery Co.
Columbus, Ga., Motor Parts & Supply Co.
Columbus, Ohio, G. W. Holmes Co.
Dallas, Texas, The Electromotive Co.
Davenport, Iowa, Sieg Company.
Dayton, Ohio, Dayton Auto Parts Co.
Decatur, Ill., Field & Shorb Company.
Denver, Colo., Hendrie & Bolthoff Mfg. & Supply Co.
Des Moines, Ia., Standard Bearings Co., 1014 Grand Ave.
Detroit, Mich., Detroit Ball Bearing Co., 110 W. Alexandrine Ave.
Dothan, Ala., Dothan Auto Parts Co.
Duluth, Minn., S. & S. Auto Parts Co., 405 E. Superior St.
El Paso, Texas, Smith Machine Co.
Erie, Pa., Le Jeal Automotive Service.
Eureka, Cal., Eureka Automotive Supply Co.
Evansville, Ind., Evansville Auto Parts Co.
Evansville, Ind., Evansville Electric & Mfg. Co.
Everett, Wash., Bearing Supply Co.
Far Rockaway, N. Y., American Tire & Repair Company.
Flint, Mich., Flint Automotive Sales.
Ft. Wayne, Ind., Korte Bros., Inc., 217 W. Main St.
Fort Worth, Texas, Fort Worth Wheel & Rim Co.
Fresno, Cal., Bearing Supply Co., 1420 Van Ness St.
Galesburg, Ill., P & M Accessory Co.
Garden City, Kan., Motor Supply Co.
Grand Rapids, Mich., I. H. Gingrich & Sons.
Green Bay, Wis., Green Bay Auto Parts Co.
Greenville, S. C., Kaufman Brothers.
Hackensack, N. J., Standard Motor Parts Co.
Harlingen, Texas, Briscoe Motor Parts, Inc.
Harrisburg, Pa., Swain-Hickman Co.
Hartford, Conn., L. L. Ensworth & Son.
Hempstead, N. Y., Hempstead Auto Parts Co.
Holyoke, Mass., J. Russell & Co.
Houston, Texas, Texas Tire & Supply Co.
Indianapolis, Ind., Auto Equipment Co., 1021 N. Meridian St.
Joplin, Mo., Lewis Machine Co.
Kansas City, Mo., C. & G. Brake Lining & Bearing Company.
Kenosha, Wis., Fred P. Rudy Co.
Kingston, N. Y., H. F. King Co.
Knoxville, Tenn., McNutt & Burks, Inc.
Knoxville, Tenn., Service Auto Parts Co.
Lancaster, Pa., J. F. Wild, 345 N. Queen St.
Lansing, Mich., Paul Automotive Parts Co.
Larned, Kan., C. M. Phinney
Lewiston, Idaho, Lewiston Auto Parts Co.
Lewiston, Maine, Palmer King Motor Co.
Lexington, Ky., Wombwell Automotive Parts Co., Inc.
Lincoln, Neb., L. J. Messer Parts Co.
Little Rock, Ark., J. B. Cook Auto Machine Co.
Long Beach, Cal., Curtis & Christensen.
Los Angeles, Cal., Angelica Bearing Co.
Louisville, Ky., Neill-LaVielle Supply Co.
Lowell, Mass., Towers Motor Parts Co.
Lynn, Mass., Essex Tire and Supply Co.
Macon, Ga., Bearing Supply Co.
Madison, Wis., T. C. Olsen Co.
Mason City, Iowa, J. B. Snyder & Co.
Medford, Ore., Littrell Parts Co.
Memphis, Tenn., J. B. Cook Auto Mach. Co.
Miami, Fla., Motor & Axle Parts Co.
Middletown, N. Y., Electric Auto Systems Service, Inc.
Milwaukee, Wis., Widmeyer Spring & Bearing Co., 347-5th Street.
Minneapolis, Minn., Automotive Service Co.
Minneapolis, Minn., Fenstermacher Automobile Supply Co.
Mobile, Ala., McGowin-Lyons Hardware & Supply Co.
Montgomery, Ala., Parts Service Corp.
Mount Vernon, N. Y., L. Earl Miller, Inc.
Muscatine, Iowa, Auto Parts Co.
Nashua, N. H., Nashua Battery Shop.
Nashville, Tenn., Auto Bearings & Parts Co., Inc.
Newark, N. J., W-B Bearing & Parts Co., 270 Halsey St.
Newburgh, N. Y., S. G. Kimball.
New Haven, Conn., Page, Steele & Flagg Co.
New Orleans, La., M. H. Rykoski.
New York, N. Y., The Hess-Bright Shop of SKF Industries, Inc., 2004 Broadway.
Norfolk, Va., Chesapeake Auto Supply Co.
Nyack, N. Y., Nyack Auto Parts Co.
Oklahoma City, Okla., Mee-Oakes Co.
Oakland, Cal., Bearing Specialty Co., 266 24th St.
Omaha, Neb., Andrew Murphy & Son, Inc., 1410 Jackson St.
Orlando, Fla., Orlando Gear & Parts Co.
Palo Alto, Cal., Palo Alto Parts Co.
Parkersburg, W. Va., John M. Hepfer Co.
Paterson, N. J., Standard Motor Parts Co.
Peoria, Ill., Peoria Auto Parts Co.
Philadelphia, Pa., Swain-Hickman Co., 3519 Lancaster Ave.
Phoenix, Ariz., Phoenix Auto Supply Co.
Pittsburgh, Pa., Colonial Supply Co.
Ponca City, Okla., E. E. Gentry.
Port Huron, Mich., Port Huron Piston Service Co.
Portland, Ore., SKF Industries of Cal., 480 Burnside St.
Portland, Ore., West Bearing Co.
Port Richmond, N. Y., Eveready Automotive Corp.
Providence, R. I., American Ball Co., 115 Clifford St.
Quincy, Ill., Standard Auto Parts Co.
Raleigh, N. C., Motor Bearings & Parts Co.
Reading, Pa., James F. Wild.
Reading, Pa., The Auto Parts Company.
Richmond, Va., Richmond Auto Parts Co.
Roanoke, Va., Shepherds' Auto Supply, Inc.
Rochester, N. Y., T. T. Bearing Co., 493 Court St.
Rockford, Ill., Eric J. Gustafson.
Roseburg, Ore., Orchard Auto Parts Co.
Sacramento, Cal., Bearing Supply Co.
Saginaw, Mich., Flack-Pennell Co.
St. Joseph, Mo., Motor Parts & Bearings Co.
St. Louis, Mo., Neiman Bearings Co., 2837 Locust St.
St. Paul, Minn., Automotive Service Co.
Salem, Ore., Ira A. Jorgenson.
Salina, Kansas, Motor Service Co.
Salt Lake City, Utah, Bearing Service & Supply Co.
San Antonio, Texas, Auto Parts Co.
San Diego, Cal., Coast Motor Parts Co.
San Francisco, Cal., Bearing Specialty Co.
Savannah, Ga., Motor Supply Co.
Scranton, Pa., Scranton Elec. Const. Co.
Seattle, Wash., Bearing Sales & Service.
Sheboygan, Wis., Sheboygan Machine Co.
Shreveport, La., Crawford Co., Inc.
Sioux City, Iowa, Ralph C. Schwinn Co.
Spokane, Wash., Bearing & Rim Supply Co.
Springfield, Mass., Tarbell-Watters Co.
Springfield, Ohio, Dayton Auto Parts Co.
Springfield, Ohio, Springfield Auto Parts Co.
Stockton, Cal., Stockton Bearings & Parts Co., 248 North Hunter St.
Syracuse, N. Y., Syracuse Auto Parts, Inc.
Tacoma, Wash., Richlen Auto Parts Co.
Taunton, Mass., Pierce Hardware Co., Inc.
Terre Haute, Ind., John S. Cox & Son.
Toledo, Ohio, Motive Parts & Supply Co.
Traverse City, Mich., Northern Auto Parts Co.
Trenton, N. J., Ufert Auto Parts Service
Tulsa, Okla., Standard Parts Co.
Utica, N. Y., Bergan Supply Co., Inc.
Ventura, Cal., L. N. Diedrich Automotive Parts.
Waco, Texas, McLendon Hardware Co.
Washington, D. C., Bearing Sales Corp., 1907 14th St., N. W.
Wichita, Kansas, The Motor Equipment Company.
Williamsport, Pa., Kline & Company.
Winston-Salem, N. C., Southern Bearings & Parts Co., Inc.
Worcester, Mass., Lyman Motor Parts Co.
Yonkers, N. Y., Whalen & Fennell, Inc.
York, Pa., Piperberg Auto Parts Co.
Youngstown, Ohio, Ohio Ball Bearing Co.

Adv. No. 2602

SKF INDUSTRIES INC., 40 E. 34th St., NEW YORK CITY

Digitized by Google

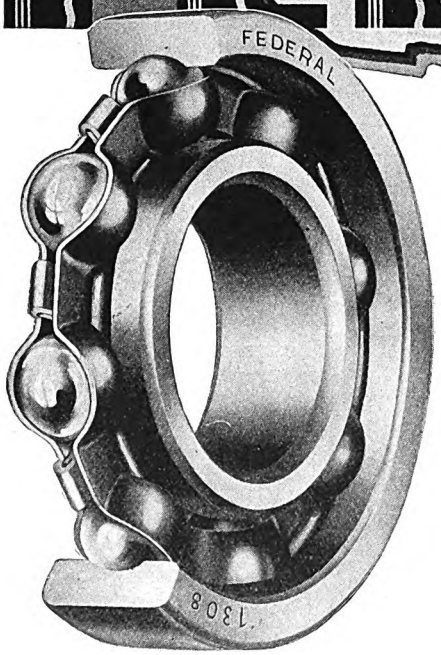
BEARINGS—Ball and Roller—Continued

Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilot	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
Franklin 11.....(1926)	.....	3407	3407	3210	3210	2203	.....	2202	.....	.....	.....	6967	6967	2208	2406	.....	2305	2305	7063	7020	6150	.....
Franklin 11-B.....(1927-28)	.....	6633	6633	3210	3210	.....	.....	.....	.....	.....	.....	6405	6405	2208	2406	8010A	2305	2305	7063	7020	6137	.....
Franklin Series 12.....(1927-28)	.....	6633	6633	6117	6117	2203	.....	.....	.....	.....	.....	6405	6405	2208	2406	8010A	2305	2305	6458	6388	6137	.....
Franklin 130.....(1929)	.....	6633	6633	6117	6117	.....	.....	2203	.....	.....	.....	6405	6405	2208	2307	8010A	8010A	8010A	6458	6388	6137	.....
Franklin 135, 137.....(1929)	.....	6633	6633	6117	6117	.....	.....	2203	.....	.....	.....	6405	6405	8063B	2307	.....	.....	.....	6458	6388	6137	.....
Franklin 145, 147.....(1930)	.....	6633	6633	6117	6117	.....	.....	.....	.....	.....	.....	6405	6405	.....	.....	.....	.....	.....	6458	6388	6082	6082
Gardner 6-A.....(1925)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6084	6602	.....	.....
Gardner 8-A.....(1925)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6084	6602	.....	.....
Gardner Series 5.....(1925)	.....	7050	7086	8582B	8582B	8635A	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6511	6380	8900	8900
Gardner 6-B.....(1926-27)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	6084	6002	.....	.....
Gardner 8-B.....(1926-27)	.....	6457	6514	6088	6088	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8660A	.....	.....	6084	6432	6608	.....
Gardner 80.....(1927)	.....	6457	6514	6079	6079	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7009	6986	7013	.....
Gardner 90.....(1927)	.....	6064	6457	6088	6088	.....	.....	2203	.....	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6064	6432	6596	.....
Gardner 75.....(1928)	.....	6457	6514	6079	6079	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7009	6986	7013	7013
Gardner 85.....(1928)	.....	6457	6059	6098	6098	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7009	6986	7013	7013
Gardner 95.....(1928)	.....	6457	6064	6088	6088	.....	.....	2203	.....	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6064	6432	6608	.....
Gardner 120.....(1929)	.....	6457	6059	6095	6095	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7009	6986	7013	7013
Gardner 125.....(1929)	.....	6457	6059	6095	6095	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	7009	6986	7013	7013
Gardner 130.....(1929)	.....	6457	6064	6090	6090	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	8660A	.....	.....	6064	6432	6608	.....
Gardner 136.....(1930)	.....	6457	6059	6098	6098	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7009	6986	7013	7013
Gardner 140.....(1930)	.....	6457	6059	6098	6098	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7009	6986	7013	7013
Gardner 150.....(1930)	.....	6457	6064	6090	6090	.....	.....	.....	.....	.....	.....	.....	.....	8132B	.....	.....	.....	.....	6064	6432	6608	.....
Graham Paige 610.....(1928-29)	.....	7047	6561	7070	7070	9320A	.....	.....	.....	.....	.....	.....	.....	2206 2207	2305	.....	.....	.....	7011	6986	6516	.....
Graham Paige 614.....(1928-29)	.....	4307	2305	6096	6096	9320A	.....	.....	.....	.....	.....	.....	.....	8063B	2305	.....	.....	.....	7011	6986	6652	.....
Graham Paige 619.....(1928-29)	7192	.....	2306	6117	6117	9320A	.....	.....	.....	.....	.....	.....	.....	8132B	2307	.....	.....	.....	6518	6381	6091	6091
Graham Paige 629.....(1928-29)	7192	.....	2306	6117	6117	9320A	.....	.....	.....	.....	.....	.....	.....	8132B	2307	.....	.....	.....	6518	6381	6091	6091
Graham Paige 835.....(1928-29)	7192	.....	2306	6117	6117	9320A	.....	.....	.....	.....	.....	.....	.....	8132B	2307	.....	.....	.....	6518	6381	6091	6091
Graham Paige 612.....(1929)	7193	6567	6552	7071	7071	9320A	.....	.....	2203	.....	.....	.....	.....	2207	2305	.....	.....	.....	7011	6986	6516	.....
Graham Paige 615.....(1929)	.....	4307	2305	6096	6096	9320A	.....	.....	2203	.....	.....	.....	.....	8063B	2305	.....	.....	.....	7011	6986	6080	6080
Graham Paige 621.....(1929)	7192	.....	2306	6117	6117	9320A	.....	.....	2203	.....	.....	.....	.....	8132B	2307	.....	.....	.....	6518	6381	6091	6091
Graham Paige 827.....(1929)	7192	.....	2306	6117	6117	9320A	.....	.....	2203	.....	120	.....	.....	8132B	2307	.....	.....	.....	6518	6381	6091	6091
Graham Paige 837.....(1929)	7192	.....	2306	6117	7117	9320A	.....	.....	2203	.....	120	.....	.....	8132B	2307	.....	.....	.....	6518	6381	6091	6091
Graham Paige Std. 6.....(1930)	7193	6567	6553	7071	6071	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	6516	.....
Graham Paige Spec. 6.....(1930)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	6080	6080
Graham Paige Custom 8.....(1930)	7192	.....	.....	6117	6117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6518	6381	6091	6091
Graham Paige Special 8.....(1930)	7192	.....	.....	6117	6117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6518	6381	6091	6091
Graham Paige Standard 8.....(1930)	7192	.....	.....	6117	6117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6518	6381	6091	6091
Hudson Super 6.....(1925)	.....	6563	6163	6117	6117	2205	3211	.....	.....	.....	.....	.....	.....	8959B	8940	9322A	8284B	8284B	6138	6037	6204	.....
Hudson Super 6.....(1926)	.....	6563	6163	6117	6117	2205	3211	.....	.....	.....	.....	.....	.....	8959B	8940	9322A	8284B	8284B	6138	6037	6204	.....
Hudson Super 6.....(1927)	.....	6565	6163	6114	6114	2204	3210	.....	.....	.....	.....	.....	.....	2308	8940	9322A	.....	.....	6138	6037	6204	.....
Hudson Super 6.....(1928)	.....	6565	6163	6117	6117	2204	3210	115	2203	.....	.....	.....	.....	2308	8940	9322A	8284B	8284B	6138	6037	6204	.....
Hudson Greater 6.....(1929)	.....	6565	6163	6117	6117	2204	3207	.....	2203	.....	.....	.....	.....	2308	8940	.....	8284B	8284B	6138	6037	6204	.....
Hudson Great 8.....(1930)	.....	7048	6553	6061	6061	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6386	.....	6599
Hupmobile E1.....(1925-26)	.....	4307	2305	7074	7074	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8060A	8587A	8587A	6601	6485	6152	.....
Hupmobile Series R.....(1925)	.....	4307	2305	7074	7074	.....	.....	.....	.....	.....	.....	.....	.....	2209	2306	8018A	8018A	8018A	6068	6006	6604	.....
Hupmobile A1.....(1926)	.....	6556	6633	7074	7074	9320A	.....	.....	.....	.....	8487B	.....	.....	.....	2306	8010A	8010A	8010A	7009	6382	6597	6597
Hupmobile E2.....(1926-27)	.....	4307	2310	6105	6105	2204	.....	2203	2204	.....	.....	.....	.....	2209	2307	8018A	8018A	8018A	6601	6485	6152	.....
Hupmobile A2.....(1927)	.....	6556	6533	7074	7074	9320A	.....	2202	2202	.....	8487B	.....	.....	8128B	2306	8010A	8010A	8010A	7009	6382	6597	6597
Hupmobile E3.....(1927-28)	.....	4307	2310	6105	6105	.....	.....	2203	2204	2200	.....	.....	.....	2209	2307	8018A	8018A	8018A	6601	6485	6152	.....
Hupmobile Century 6.....(1928)	7194	6556	6533	7074	7074	9320A	.....	2202	2202	.....	8487B	.....	.....	8128B	2306	8010A	8010A	8010A	7009	6382	6597	6597
Hupmobile Century 8.....(1928)	7194	6632	6654	6100	6100	.....	.....	2202	2202	.....	.....	.....	.....	8128B	2306	8010A	8010A	8010A	7009	6382	6597	6597
Hupmobile Century 125.....(1928)	.....	4307	2310	6105	6105	.....	.....	2203	2204	2200	.....	.....	.....	2209	2307	8018A	8018A	8018A	6601	6485	6152	.....
Hupmobile Big 8, 7 Pass.....(1929)	.....	6633	6716	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6511	6382	6152	6152
Hupmobile Century 6.....(1929)	7194	6551	6633	7074	7074	9320A	.....	2202	2202	.....	8487B	.....	.....	8128B	2306	8010A	8010A	8010A	7009	6382	6597	6597
Hupmobile M8.....(1928-29)	7194	6632	6654	6100	6100	2205	.....	2202	2202	.....	.....	.....	.....	8128B	2306	8010A	8010A	8010A	7009	6382	6597	6597
Hupmobile S6.....(1930)	7205	6553	6553	7071	7071	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6382	7007	7007
Hupmobile H, U8.....(1930)	7193	6633	6717	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6382	6074	6074
Hupmobile C8.....(1930)	7193	6632	6654	6100	6100	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6382	6610	6610
Jewett 6-50.....(1925)	.....	7090	7033	6032	6099	.....	.....	2201	2203	.....	120	.....	.....	2209	2306	.....	.....	.....	6455	6380	6605	6605
Jewett New Day 6-40.....(1926)	.....	4306	2304	6079	6079	9320A	.....	.....	.....	.....	4302	.....	.....	2207	2206	.....	.....	.....	.....	.....	.....	.....
Jordan K, L.....(1925)	.....	.....	.....	6105	6105	2205	2210	.....	.....	.....	.....	.....	.....	2209	2307	9323A	9324A	9324A	6601	6479	7074	7074

Digitized by Google

N·A·P·A
National Automotive Parts Association

NAPA
FEDERAL



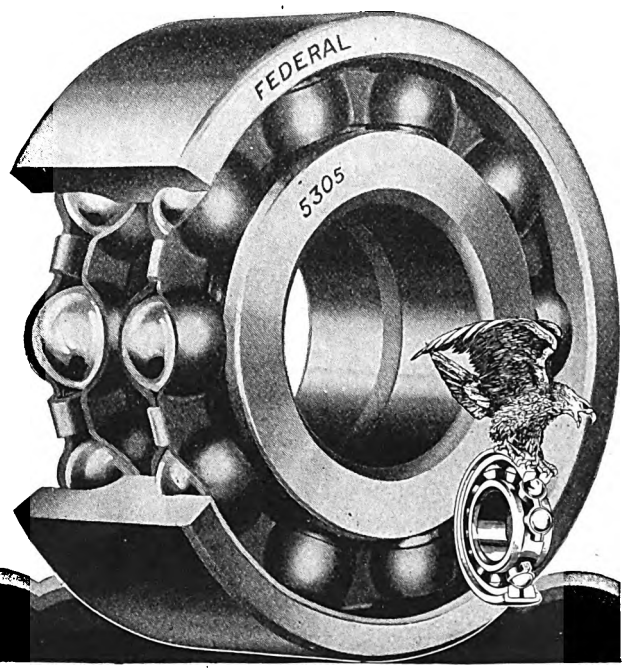
BACK OF FEDERALS
ARE WAREHOUSE STOCKS

QUICK service! As important as good bearings. When you use "FEDERALS," you not only have the finest bearings money can buy, but you get them promptly. Warehouse stocks in principal cities in the U. S. and Canada mean quick delivery. Standard sizes. Single or double row. Magneto types. For *better* performance use "FEDERALS!"

THE FEDERAL BEARINGS CO., Inc.
Poughkeepsie, N. Y.
Detroit Sales Office: 917 Book Bldg.

Promptly Delivered From Warehouse Stocks in These Cities

Allentown	Detroit	Nashville	Spokane
Akron, O.	Fresno	New York	St. Louis
Atlanta	Grand Rapids	Oakland	St. Paul
Baltimore	Harrisburg	Oklahoma City	Springfield, O.
Birmingham	Hollywood	Omaha	Tacoma
Boise	Houston	Philadelphia	Walla Walla
Boston	Indianapolis	Pittsburgh	Washington
Buffalo	Jacksonville	Portland, Ore.	Yakima
Chicago	Kansas City	Richmond	Youngstown
Cleveland	Long Beach	Sacramento	Calgary, Alta.
Columbus, O.	Los Angeles	San Antonio	Montreal, Que.
Cincinnati	Louisville	San Francisco	Saskatoon, Sask.
Dallas	Memphis	Salem, Ore.	Toronto, Ont.
Denver	Milwaukee	Salt Lake City	Vancouver, B. C.
Des Moines	Minneapolis	Seattle	Winnipeg, Man.



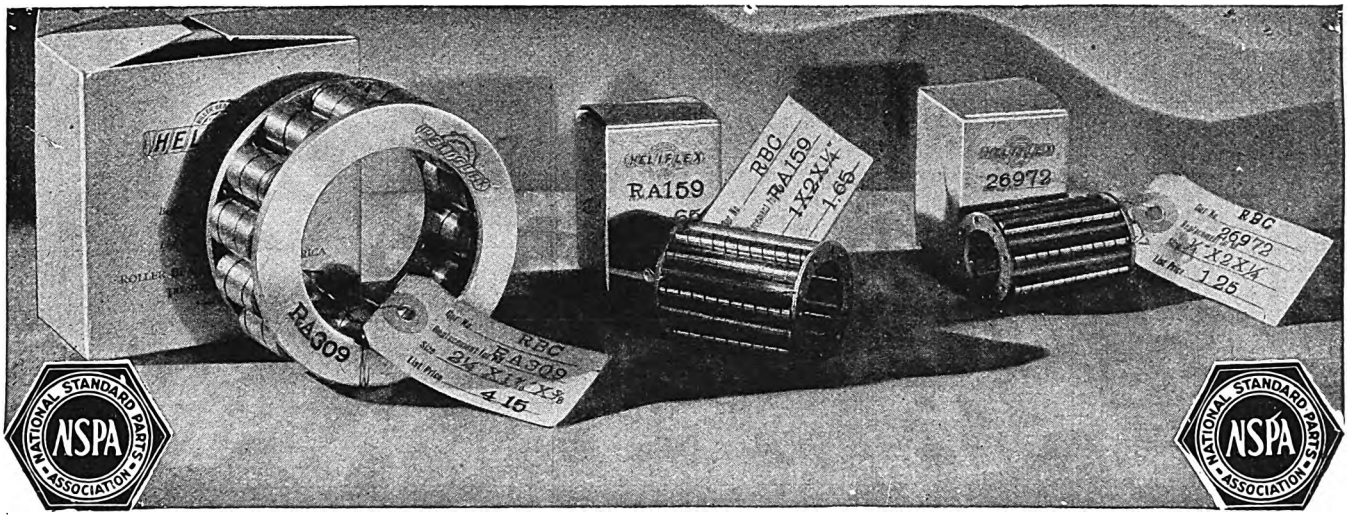
Digitized by Google

BEARINGS—Ball and Roller—Continued

Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilot	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
Jordan A.....(1925)	.....	7093	7093	6105	6105	2205	2210	115	2204	.....	.....	.....	.....	2209	2307	9323A	9324A	9324A	6601	6479	6091	6091
Jordan A.....(1926)	.....	7093	7093	6105	6105	2205	2210	115	2204	.....	.....	.....	.....	2209	2307	9323A	9324A	9324A	6601	6479	6091	6091
Jordan J.....(1926)	7195	7086	7086	6101	6101	9320A	.....	115	2204	.....	7182	.....	.....	2209	2307	8010A	8018A	8018A	7058	6381	7065	7065
Jordan AA.....(1927)	.....	7093	2306	6105	6105	2205	2210	115	2204	.....	7182	.....	.....	2209	2307	9323A	9324A	9324A	6601	6479	6091	6091
Jordan J.....(1927)	7195	7090	8167B	6100	6100	9320A	.....	115	2204	.....	7182	.....	.....	2209	2307	8010A	8018A	8018A	7058	6381	7065	7065
Jordan R.....(1927-28)	7195	7081	7081	6118	6118	8007A	.....	2202	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	6458	6386	7013	7013
Jordan JJ.....(1928)	7195	7090	8167B	6100	6100	9320A	.....	115	2204	.....	.....	.....	.....	2209	2307	8010A	8018A	8018A	7058	6381	7065	7065
Jordan JE.....(1928-29)	.....	7090	.....	6100	6100	.....	.....	2203	2204	.....	.....	.....	.....	2209	2307	.....	.....	.....	7058	6381	7065	7065
Jordan E.....(1929)	.....	6457	6518	6061	6061	.....	.....	.....	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	7009	6986	7013	7013
Jordan G.....(1929)	.....	6457	6064	6097	6097	.....	.....	2203	.....	.....	2303	.....	.....	2209	2307	.....	.....	.....	6517	6388	6517	6517
Jordan T.....(1930)	.....	6457	6517	6061	6061	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6458	6388	7013	7013
Jordan G.....(1930)	.....	6457	6064	6097	6097	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6388	6517	6517
Kissel 6-55.....(1925)	.....	.....	7093	6105	6105	.....	.....	.....	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6601	6479	6091	6091
Kissel 8-75.....(1925)	.....	.....	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6601	6479	6091	6091
Kissel 6-55.....(1926)	.....	7093	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6601	6479	6091	6091
Kissel 8-75.....(1926)	.....	7093	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6601	6479	6091	6091
Kissel 6-55.....(1927)	.....	.....	.....	.....	.....	.....	.....	2201	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	.....	.....	.....	.....
Kissel 8-65.....(1927)	.....	.....	.....	.....	.....	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	.....	.....	.....	.....
Kissel 8-75.....(1927)	.....	.....	.....	.....	.....	.....	.....	2201	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	.....	.....	.....	.....
Kissel 6-70.....(1928)	.....	7093	7093	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2207	2206	.....	.....	.....	6601	6479	6091	6091
Kissel 6-55.....(1928)	.....	.....	.....	.....	.....	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	.....	.....	.....	.....
Kissel 8-80.....(1928)	.....	7093	7093	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6146	6038	6091	6091
Kissel 8-80S.....(1928)	.....	7093	7093	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6146	6038	6091	6091
Kissel 8-90.....(1928)	.....	7093	7093	6105	6105	2205	.....	2201	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6146	6038	6091	6091
Kissel 6-73.....(1929)	.....	6457	6517	6061	6061	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	7009	6986	7013	7013
Kissel 8-95.....(1929)	.....	7093	.....	6105	6105	.....	.....	2203	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	6146	6038	6091	6091
Kissel 8-126.....(1929)	.....	7093	.....	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2209	2307	.....	.....	.....	6146	6038	6091	6091
Kissel 6-73.....(1930)	.....	6457	6059	6098	6098	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7056	6986	7013	7013
Kissel 8-95.....(1930)	.....	6457	6064	6098	6098	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6388	6517	6517
Kissel 8-126.....(1930)	.....	7093	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6146	6038	6091	6091
La Salle 303.....(1927)	.....	4308	2408	6120	6120	2204	.....	2203	2204	2200	.....	.....	.....	2209	2307	8018A	8028A	8028A	508	507	2311	2311
La Salle 303.....(1928)	.....	4308	2408	6120	6120	2204	.....	2203	2204	2200	.....	.....	.....	2209	2307	8018A	8028A	8028A	508	507	2311	2311
La Salle 328.....(1929)	.....	4308	2408	6120	6120	2204	.....	2203	2204	2200	.....	.....	.....	8132B	8132	8018A	8216A	8216A	508	507	2311	2311
La Salle.....(1930)	.....	.....	.....	6120	6120	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lexington Concord.....(1925)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6004	6602	.....
Lexington Minute Man.....(1925)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7058	6381	6605	.....
Lexington Minute Man.....(1926)	.....	.....	.....	6096	6096	2205	.....	.....	.....	.....	.....	.....	.....	2209	2306	.....	.....	.....	7058	6381	6605	.....
Lincoln 8.....(1925)	6669	6162	6263	6213	6279	2204	.....	2203	2204	2200 U 2204 L	.....	.....	.....	2309	2407	.....	.....	.....	6146	6038	6110	6110
Lincoln.....(1926)	6669	6162	6263	6213	6279	2204	.....	2203	2204	2200 U 2204 L	.....	.....	.....	2309	2407	.....	.....	.....	6146	6038	6110	6110
Lincoln.....(1927)	6669	6162	6263	6213	6279	2204	.....	2203	2204	2200 U 2204 L	.....	.....	.....	2309	2407	.....	.....	.....	6146	6038	6110	6110
Lincoln.....(1928)	7196	6162	6263	6213	6279	2204	.....	2203	2204	2200 U 2204 L	.....	.....	.....	2309	2407	.....	.....	.....	6146	6038	6110	6110
Lincoln 8.....(1929)	7196	7102		6213	6278	2204	.....	2203	2204	2200 U 2204 L	.....	.....	.....	2309	2407	.....	.....	.....	6146	6038	6110	6110
Lincoln.....(1930)	7196	7102		6213	6278	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6146	6038	6110	6110
Locomobile 48.....(1925)	.....	4311	2412	2312	2312	4307	2210	.....	.....	2201 2203 2200 (2)	2303	6062	6008	2211	2308	.....	2307	2307	6441	6585	2311	2211
Locomobile 48.....(1926)	.....	4311	2412	2312	2312	4307	2210	.....	.....	2201 2203 2200 (2)	2303	.....	.....	2211	2308	.....	2307	2307	.....	.....	2311	2211
Locomobile 90.....(1926)	.....	4309	2307	2211	4211	.....	2201	2303	2303	.....	120	.....	.....	4210	4307	2207	2306	2306	6147	6556	2310	2310
Locomobile Jr. 8.....(1926)	.....	4306	2308	.....	.....	.....	.....	2203	2204	.....	.....	.....	.....	2307	2306	.....	.....	.....	.....	.....	.....	.....
Locomobile 48.....(1927)	.....	4311	2412	2312	2312	4307	2210	2203	2204	2201 2203 2200 (2)	2303	.....	.....	2211	2308	.....	2307	2307	.....	.....	2311	2311
Locomobile 8-66.....(1927)	.....	4306	2308	.....	.....	.....	.....	2203	2204	.....	.....	.....	.....	2307	2306	2206	.....	.....	.....	.....	.....	.....
Locomobile 8-80.....(1927)	.....	4308	2306	.....	.....	2305	.....	2203	2203	.....	.....	.....	.....	2209	2307	.....	.....	.....	.....	.....	.....	.....
Locomobile 90.....(1927)	.....	4309	2307	2211	4211	.....	2209	2303	2303	.....	120	.....	.....	4210	4307	2207	2306	2306	6147	6556	2310	2310
Locomobile 48.....(1928)	.....	4311	2412	.....	.....	.....	3209	2203	2204	2200	2303	6062	6008	2211	2308	.....	2307	2307	6648	6585	2311	2211
Locomobile 8-70.....(1928)	.....	4306	2308	7074	7074	2205	.....	2201	2204	.....	.....	6062	6008	2306	2306	.....	.....	.....	7188	6380	6600	.....

Digitized by Google

HELIFLEX



ROLLER BEARINGS ARE GUARANTEED FOR QUALITY, INTERCHANGEABILITY AND PERFORMANCE

HELIFLEX stocks just can't go wrong... if the package is broken, there is a Heliflex number and price tag on each piece.

HELIFLEX service stocks are conveniently located throughout the country. Your Parts Jobber can serve your every requirement.

HELIFLEX Bearings are available for every car, truck, bus or tractor, regardless of make, year or model.

For Heliflex complete bearing numbers see Roller Bearing Table in this section of Chilton Multi-Guide.

HELIFLEX New Complete Catalogs are now ready. Write for your copy... complete service specifications, interchangeability table, prices, etc.

Service Parts Wholesalers who have found it impossible to get an adequate roller bearing line, are invited to join the Heliflex organization.

ROLLER BEARING CO. OF AMERICA

Replacement Division—Whitehead Road, Trenton, New Jersey

Export Replacement Department—55 West 42nd St., New York City

Dallas Warehouse	New York City Warehouse	Kansas City Warehouse	Chicago Warehouse	Atlanta Warehouse	Los Angeles Warehouse
Herbert Sierk	250 W. 54th St.	R. O. Smith	2073 S. Wabash Ave.	Frank Merryman	Pacific Ball Bearing Co.
2705 Williams Street	New York City	14th & Oak	Chicago, Ill.	580 Spring St., N. W.	415 West Pico Street
Dallas, Texas		Kansas City, Missouri		Atlanta, Ga.	Los Angeles, California

We also ship direct from our warehouse stocks at Los Angeles, San Francisco and Seattle

Digitized by Google

BEARINGS—Ball and Roller—Continued

Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilot	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
Locomobile 8-80 (1928)	.....	4308	2306	6105	6105	2305	.....	2203	2203	.....	.....	.....	.....	2209	2307	.....	.....	.....	6601	6480	6156	.....
Locomobile 90 (1928)	.....	4309	2307	.....	.....	.....	3209	2303	2303	.....	120	.....	.....	2210	4307	.....	2306	2306	6147	6556	2310	2310
Locomobile 8-80 (1929)	.....	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6601	6480	6156	.....
Locomobile 86, 88 (1929)	.....	4308	2306	7074	7074	2305	.....	2203	2203	.....	.....	6062	6008	2209	2307	.....	.....	.....	7188	6380	6600	.....
Locomobile 90 (1929)	.....	4309	2307	.....	.....	.....	3209	2303	2303	.....	120	.....	.....	2210	4307	.....	2306	2306	6147	6556	2310	2310
Marmon 74 (1925)	.....	2209	4310	8533B	4212	4206	2211	2203	2203	2200	.....	2206R	2207L	2209	9209B	8208	.....	.....	6136	6479	2311	2311
Marmon 74 (1926)	.....	2209	4310	8533B	4212	4206	2211	2203	2203	2200	.....	2206R	2207L	2209	9209B	8208A	.....	.....	6136	6479	2311	2311
Marmon Little 8 (1927)	.....	4306	2308	4208*	2208*	9320A	.....	.....	2203	.....	116 120	.....	.....	2207	2306	.....	.....	.....	6986	7009	7013	7013
Marmon E-75 (1927)	.....	2209	4310	8533B	4212	.....	2211	2203	2203	2200	116 120	2206R	2207L	2209	9209B	8208A	.....	.....	6136	6479	2311	2311
Marmon 68 (1928)	.....	4306	2304	6080	6080	9320A	.....	.....	2203	.....	2303	.....	.....	2207	2306	.....	.....	.....	7011	6986	2307	2307
Marmon E-75 (1928)	.....	2209	4310	8533B	4212	.....	2211	2203	2203	2200	116 120	2206R	2207L	2209	9209B	8208A	.....	.....	136	6479	2311	2311
Marmon 78 (1928)	.....	4306	2308	3209	3209	9320A	.....	2203	2203	.....	.....	.....	.....	2208	2306	8010A	.....	.....	524	523	7013	7013
Marmon 68 (1929)	.....	4306	2304	6080	6080	.....	.....	.....	2203	.....	2303	.....	.....	2207	2306	.....	.....	.....	7009	6986	2307	2307
Marmon 78 (1929)	.....	4306	2308	6105	6105	9320A	.....	2203	2203	.....	116 120	.....	.....	2208	2306	8010A	.....	.....	524	523	7013	7013
Marmon Roosevelt (1929)	.....	6566	6553	7071	7071	.....	.....	.....	2203	.....	.....	.....	.....	2206	2305	.....	.....	.....	7011	6986	6516	.....
Marmon 8-69 (1930)	.....	.....	.....	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	.....	.....
Marmon 8-79 (1930)	.....	.....	.....	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6381	6652	.....
Marmon H Big 8 (1930)	.....	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6381	6156	.....
Maxwell 25 (1925)	.....	4307	2305	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	2209	2306	8660A	.....	.....	.....	.....	2308	2308
Moon Series A (1925)	.....	6007	6064	6088	6088	.....	.....	2203	2204	.....	.....	.....	.....	2207	2306	.....	.....	.....	7058	6381	6605	6605
Moon Series A (1926)	.....	6007	6064	6088	6088	.....	.....	2203	2204	.....	.....	.....	.....	2207	2306	.....	.....	.....	7058	6381	6605	6605
Moon 6-60 (1926)	.....	6457	6479	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	7013	7013
Moon Series A (1927)	.....	6007	6064	6088	6088	.....	.....	2203	2204	.....	.....	.....	.....	2207	2306	.....	.....	.....	7058	6381	6605	6605
Moon 6-60 (1927)	.....	6454	6513	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	7013	7013
Moon Series A (1928)	.....	6007	6064	6088	6088	.....	.....	.....	2204	.....	.....	.....	.....	2207	2306	.....	.....	.....	7058	6381	6605	.....
Moon 6-60 (1928)	.....	6456	6454	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	7013	7013
Moon 6-72 (1928)	.....	6457	6064	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	7013	7013
Moon 8-80 (1928)	.....	6457	6064	6088	6088	.....	.....	.....	2204	.....	2303	.....	.....	2209	2306	.....	.....	.....	7058	6381	6605	.....
Moon 6-72 (1929)	.....	6457	6514	6079	6079	.....	.....	2201	2203	.....	2302	.....	.....	2207	2305	.....	.....	.....	7009	6986	7013	7013
Nash Special 6 (1925)	.....	4308	.....	.....	.....	2205	2210	.....	2203	.....	.....	.....	.....	.....	2307	.....	.....	.....	.....	.....	2309	2309
Nash Adv. 6 (1926)	.....	.....	.....	.....	.....	.....	.....	2203	2203	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nash Light 6 (1926)	.....	.....	.....	.....	.....	.....	.....	2201	2203	.....	.....	.....	.....	.....	2306	.....	.....	.....	.....	.....	.....	.....
Nash Spec. 10L-6 (1926)	.....	4308	.....	.....	.....	2205	2210	.....	2203	.....	.....	.....	.....	.....	2307	.....	.....	.....	.....	.....	2309	2309
Nash Adv. 6 (1927)	.....	.....	.....	.....	.....	.....	.....	2203	2203	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nash Spec. 10L-6 (1927)	.....	4308	.....	.....	.....	2205	2210	.....	2203	.....	.....	.....	.....	.....	2307	.....	.....	.....	.....	.....	2309	2309
Nash Light 6 (1927)	.....	7057	7063	7074	7074	.....	.....	2202	2203	.....	.....	.....	.....	8128B	2306	.....	.....	.....	6461	6381	6515	.....
Nash Adv. (1928)	.....	.....	.....	.....	.....	.....	.....	2203	2203	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nash Spec. 6, 431 (1928)	.....	4308	.....	.....	.....	2205	2210	.....	2203	.....	.....	.....	.....	.....	2307	.....	.....	.....	.....	.....	2309	2309
Nash Std. 6, 400 (1928)	.....	7057	7063	7074	7074	.....	.....	2202	2203	.....	.....	.....	.....	8128B	2306	.....	.....	.....	6460	6381	6515	.....
Nash Std. 6 (1929)	.....	7057	7063	7074	7074	.....	.....	.....	2203	.....	.....	.....	.....	8128B	2306	.....	.....	.....	7008	6986	6515	.....
Nash Std. 6 (1930)	7175	6553	6553	6095	6095	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7008	6986	7014	.....
Oakland 6-54 (1925)	.....	4306	2307	3208	3208	.....	.....	.....	.....	.....	.....	3206	.....	2207	2306	.....	.....	.....	504	503	8131	8131
Oakland O6 (1926)	.....	4306	2307	3208	3208	.....	.....	.....	.....	.....	.....	3206	.....	2207	2306	.....	.....	.....	6958	6959	8131	8131
Oakland GO-6 (1927)	.....	4306	2307	3208	3208	.....	.....	.....	.....	.....	.....	3206	.....	2207	2306	.....	.....	.....	504	503	8131	8131
Oakland AA-6 (1928)	.....	4306	2307	3208	3208	.....	.....	.....	2203	.....	.....	.....	.....	2208	2306	8010A	.....	.....	504	503	8131	8131
Oakland AA-6 (1929)	.....	4306	2307	3208	3208	.....	.....	.....	2203	.....	.....	.....	.....	2208	2306	8010A	.....	.....	524	523	8131	8131
Oldsmobile 30C (1925)	.....	4306	2304	3208	3208	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	502	501	2307	2307
Oldsmobile 30D (1926)	.....	4306	2304	3208	3208	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	502	501	2307	2307
Oldsmobile E (1927)	.....	4306	2304	3208	3208	.....	.....	.....	.....	.....	.....	.....	.....	2207	2306	9325A	.....	.....	502	501	2307	2307
Oldsmobile F-28 (1928)	.....	4306	2308	3208	3208	.....	.....	.....	.....	.....	.....	.....	.....	2208	2306	8010A	.....	.....	524	523	2307	2307
Oldsmobile F-29 (1929)	.....	4306	2308	3208	3208	.....	.....	.....	.....	.....	.....	.....	.....	2208	2306	8010A	.....	.....	524	523	2307	2307
Overland 91 (1925)	.....	4406	2307	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	2208	2307	.....	.....	.....	7009	6986	2308	2308
Overland 93 (1925)	.....	4306	2307	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	2208	2307	.....	.....	.....	6008	6380	2308	2308
Overland 91 (1926)	.....	4406	2307	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	2208	2307	.....	.....	.....	7009	6986	2308	2308
Overland 93 (1926)	.....	4306	2307	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	2208	2307	.....	.....	.....	6008	6380	2308	2308
Packard 6 cyl., 326, 333 (1925)	.....	.....	.....	6110	6110	.....	2210	.....	.....	.....	8353B	.....	.....	8274B	4307†	9326A	8272A	8272A	6606	6479	2309	2309
Packard 8 cyl., 236, 243 (1925)	.....	.....	.....	6193	6193	.....	.....	.....	.....	.....	8353B	.....	.....	8274B	4307†	9326A	8272A	8272A	6606	6479	2310	2310
Packard 6 cyl., 326, 333 (1926)	.....	.....	8167B	6110	6110	.....	2210	.....	.....	2200	8353B	.....	.....	8274B	4307†	9326A	8272A	8272A	6606	6479	2309	2309
Packard 8 cyl., 236, 243 (1926)	.....	.....	8168B	6193	6193	.....	2210	.....	.....	2200	8353B	.....	.....	8274B	4307†	9326A	8272A	8272A	6606	6479	2310	2310
Packard 6 cyl., 426, 433 (1927)	.....	4308	4305	6110	6110	2205	2210	.....	.....	2200	8353B	.....	.....	8274B	4307†	9326A	8272A	8272A	6606	6479	2309	2309
Packard 8 cyl., 336, 343 (1927)	.....	4309	4305	6193	6193	2205	2210	.....	.....	2200	8353B	.....	.....	8274B	4307†	9326A	8272A	8272A	6606	6479	2310	2310
Packard 6 cyl., 526 (1928)	.....	4308	.....	6110	6110	2205	2210	.....	.....	.....	8353B	.....	.....	8274B	2307	9326A	8272A	8272A	6606	6479	2309	2309

Digitized by Google

Packard Std. 8, 443	(1928)		4309		6193	6193	2205	2210			2200	8353B			8374B	2307	9326A	8272A	8272A	6606	6479	2310	2310
Packard 6 cyl., 533	(1928)		4308		6110	6110	2205	2210				8353B			8274B	2307	9326A	8272A	8272A	6606	6479	2309	2309
Packard 626, 633	(1929)		4308		6117	6117	2205		2202			8357			8274B	2307	9326A	8272A	8272A	6606	6479	2309	2309
Packard 640, 645	(1929)		4309		6193	6193	2205		2202			8353B			8274B	2307	9326A	8272A	8272A	6606	6479	2310	2310
Packard 8 cyl., 726, 733	(1930)				6117	6117														6517	6485	6074	6074
Packard 8 cyl., 740, 745	(1930)				6193	6193														6606	6479		
Paige 6-70	(1925-26)		7090	7033	6032	6099														7058	6381	6605	
Paige 6-72	(1926)				6105	6105			2201	2203					2210	2307				6601	6480	6156	
Paige 6-45	(1927-28)		4306	2304	6079	6079			2201	2203		2302			2207	2206							
Paige 6-65	(1927-28)		4307	2305	6096	6096			2201	2203					2209	2306							
Paige 6-75	(1927-28)		4308	2306	6105	6105			2201	2203					2209	2306				6517	6381		6156
Paige 8-85	(1927-28)		4308	2306	6105	6105			2201	2203						2307				6517	6381		6156
Peerless 70	(1925)		7093	7093	6105	6105														6601	6479	6091	6091
Peerless 80	(1926)		6455	6084	6088	6088	2205		2201	2203		7182			2309	2308		2306	2306	7058	6381		6605
Peerless 72	(1926)		4309	2306	6105	6105	2205		2203	2203					2309	2308		2306	2306	6601	6479	7074	
Peerless 67	(1926)		6162	6556	6114	6114	2205		2203	2203					2309	2308		2306	2306	6146	6038	6616	6616
Peerless 69	(1926)		4309	2306	6105	6105	2205		2203	2203	2200				2309	2308		2306	2306	6601	6479	7074	
Peerless 60	(1927)		6457	6513	6079	6079	2205								6094	6115		7050		6986	7009	7013	7013
Peerless 69	(1927)		4309	2306			2205		2203	2203	2200				2309	2308		2306	2306				
Peerless 73	(1927)		4309	2306			2205								2309	2308		2306	2306				
Peerless 72	(1927)		6457	6064	6088	6088	2205								6094	6115		7050		6381	7058	6605	
Peerless 80	(1927)		6457	6064	6088	6088			2202	2203					6094	6115		7050		6381	7058	6605	
Peerless 90	(1927-28)		6457	6064	6088	6088	2205		2203	2203					6094	6115		7050		6381	7058	6605	
Peerless 60	(1928)			7081	6088	6088			2202							2306				7009	6986	6605	
Peerless 72	(1928)		4309	2306																			
Peerless 69	(1928)		4309	2306	6105	6105	2205		2203	2203	2200				2309	2308		2306	2306	6601	6479	7074	7074
Peerless 80	(1928)		6455	6064	6088	6088			2202	2203						2306				7058	6381	6605	
Peerless 91	(1928-29)		6455	6064	6088	6088			2203	2203						2306				7058	6381	6605	
Peerless 61	(1929)		6457	6518	6061	6061			2202			2302				2306				7009	6986	7013	7013
Peerless 125, first 500 cars	(1929)		6457	6064	6090	6090										2307				6517	6388	6517	6517
Peerless 125, after 500 cars	(1929)		6457	6064	6097	6097										2307				6517	6388	6517	6517
Peerless 81	(1929)		6457	6518	6061	6061			2203							2306				7009	6986	7013	7013
Peerless A	(1930)				6079	6079														7011	6986		
Peerless B	(1930)				6096	6096														6517	6381	6652	
Peerless C	(1930)				6105	6105														6517	6381	6156	
Pierce Arrow 80	(1925)		7093		6105	6105	2205		2203	2203	2200				2208	4307	2304	2305	2306	6653	6481	6091	
Pierce Arrow 33	(1926)		2409		2312	2312									2212	2308		2307	2307	6038	6037	6840	
Pierce Arrow 80	(1926)		7093		6105	6105	2205		2203	2203	2200				2208	4307	2304	2305	2306	6653	6481	6091	6091
Pierce Arrow 36	(1927)		4308	2409	2212	2312	4305	2210	2204	2204	2200	2202			2212	2308		2307	2307	6150	6037	6840	6840
Pierce Arrow 80	(1927)		7093		6105	6105	2205		2203	2203	2200				2208	4307	2304	2305	2306	6653	6481	6091	6091
Pierce Arrow 36	(1928)		4308	2409	2212	2312	4305	2210	2203	2203	(2201 (2) 2203 (1)	2202			2212	2308	2208	2307	2307	6150	6037	6840	6840
Pierce Arrow 81	(1928)		7093		6105	6105	2205		2203	2203					2208	4307	2304	2305	2306	6653	6481	6091	6091
Pierce Arrow 133, 143	(1929)	7197	6637	6225	6105	6105														6653	6481	6074	6074
Pierce Arrow	(1930)	7197	6637	6225	6105	6105						6986								6653	6481	6074	6074
Plymouth 4 cyl	(1929)		6566	6553	7070	7070			2201	2203					2207	2305				7011	6986	7014	7014
Plymouth	(1930)		6566	6553	7070	7070														7011	6986	7014	7014
Pontiac 6	(1926)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Pontiac 6	(1927)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Pontiac 6	(1928)		4305	2307	3208	3208				2203					2207	2306				502	501	2307	2307
Pontiac Big 6	(1929)		4306	2307	3208	3208			2203	2203					2207	2306				502	501	8131	8131
Reo T6	(1925)		6604	6162	6750	6750									9328A	9329A	9327A	9330A	9330A	6088	6431	7074	7074
Reo T6	(1926-27)		6604	6162	6750	6750				2205					9328A	9329A	9327A	9330A	9330A	6088	6431	7074	7074
Reo Flying Cloud	(1927)		4308	2305	6105	6105			2201	2203		4203			2209	2307				6517	6381	6139	
Reo Wolverine	(1927)		4307	2305	6096	6096						2302			2209	2306				6458	6381	6652	
Reo Flying Cloud	(1928)		4308	2305	6105	6105			2201	2203		4203			2209	2307				6517	6381	6139	
Reo Wolverine	(1928)		4307	2305	6096	6096						2302			2209	2306				6458	6381	6652	6652
Reo Flying Cloud Master	(1929)	7193	4308	2305	6105	6105			2201	2203		4203			2209	2307				6517	6381	6139	
Reo Flying Cloud Mate	(1929)		4307	2305	6096	6096				2203		2302			2209	2306	8660A			6458	6381	6652	
Reo Flying Cloud	(1930)				6096	6096														6458	6381	6652	
Reo Flying Cloud 20-25	(1930)	7193			6105	6105														6517	6381	6139	
Revere M	(1925)														6079	6068	6033	6047	6047				
Revere 25	(1925)														6079	6068	6033	6047	6047				
Rickenbacker A-8	(1925)		6457	6064	6088	6088														6432	6064	6605	
Rickenbacker D-6	(1925)		6457	6514	6079	6079														7009	6986	7013	7013
Rickenbacker 8-B	(1926)		6457	6064	6088	6088			115	120	2200				2209	2306				6432	6064	6605	
Rickenbacker E-6	(1926)		6457	6514	6079	6079	2204		115	120					2207	2306				7009	6986	7013	7013
Rickenbacker 6-70	(1927)		6455	6514	6079	6079	2204		2203	2204	2200				2207	2306				7009	6986	7013	7013
Rickenbacker 8-80	(1927)		6455	6514	6079	6079	2204		2203	2204	2200				2207	2306				7009	6986	7013	7013
Rickenbacker 8-90	(1927)		6455	6514	6079	6079	2204		2203	2204	2200				2209	2306				7009	6986	7013	7013
Star F	(1925)		6483	6046	2208	2208									2207	2206				7002	6986	7049	
Star M	(1926)		6483	7189	2208	2208									2207	2206				6998	6986	7187	
Star R	(1926)		6483	7189	2208	2208									2207	2206				6998	6986	7187	
Star M	(1927-28)		6483	7189	2208	2208									2207	2206				6998	6986	7187	
Star R	(1927-28)		6483	7189	2208	2208									2207	2206				6998	6986	7187	
Stearns Knight B (4 cyl.)	(1925)		7093	7035	6099	6099									2210	4307				6601	6479	7074	7074
Stearns Knight C (6 cyl.)	(1925)		7093	7080	6099	6099														6601	6479	7074	7074
Stearns Knight S (6 cyl.)	(1925)		7093	7080	6099	6099									2210	4307				6601	6479	7074	7074
Stearns Knight B (4 cyl.)	(1926)		7093	7035	6099	6099									2210	4307				6601	6479	7074	7074
Stearns Knight C-75	(1926)		7093	7088	6216	6216									2210	4307				6136	6479	6037	7074
Stearns Knight S-95	(1926)		7093	7088	6216	6216									2210	4307				6136	6479	6037	7074
Stearns Knight F6-85	(1927)			7093	6750	6750	2205								2210	4307				6601	6479	6102	6102
Stearns Knight 8-85	(1927-28)	7196		7093	6750	6750	2205								6105	4307				6146	6038	6102	6102
Stearns Knight F6-85	(1928)			7093	6750	6750			2202	2204					4210	4307				6601	6479	6102	6102
Stearns Knight H & J 8-90	(1928)	7196		7093	6750	6750	2205		2203	2203					4210	4307				6601	6479	6102	6102
Stearns Knight H & J 8-90	(1929)	7196		7093	6750	6750	2205		2203	2203					4210	4307				6146	6038	6102	6102

Digitized by Google

BEARINGS—Ball and Roller—Continued

Passenger Car Make, Model and Year	Steering Knuckle Pivot	Rear Axle				Clutch		Electrical			Fan	Steering Gear		Transmission					Wheels			
		Pinion or Worm Shaft, Front	Pinion or Worm Shaft, Rear	Differential, Right	Differential, Left	Flywheel Pilot	Release	Generator, Commutator End	Generator, Drive End	Timer Distributor Shaft, Upper or Single		Column, Upper	Column, Lower	Drive Gear Shaft, Rear or Single	Main Shaft, Rear	Main Shaft Pilot	Countershaft, Front	Countershaft, Rear	Front, Inner	Front, Outer	Rear, Inner	Rear, Outer or Single
Interchangeable Bearings Have the Same CHILTON NUMBER Anywhere in This Table																						
Stearns Knight M & N 6-80...(1928-29)	7032	.....	.....	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6601	6481	7032	7032
Stevens Duryea G.....(1925)	6669	6202	6556	6214	6214	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6146	6038	6110	6110
Studebaker Big 6.....(1925)	7034	7092	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2308	4308	.....	.....	.....	6603	6481	6156	.....
Studebaker Spec. 6.....(1925)	7034	7092	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2308	2308	.....	.....	.....	6603	6481	6156	.....
Studebaker Std. 6.....(1925)	.....	7090	7091	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2307	4207	.....	.....	.....	6510	6378	6602	.....
Studebaker Std. 6.....(1926)	.....	7090	7091	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2307	4207	.....	.....	.....	6510	6378	6602	.....
Studebaker Big 6.....(1926)	7034	7092	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2308	4308	.....	.....	.....	6603	6481	.....	6156
Studebaker Light 6.....(1926)	.....	7090	7091	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2307	4207	.....	.....	.....	6510	6378	6602	6602
Studebaker Spec. 6.....(1926)	7034	7092	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2308	2308	.....	.....	.....	6603	6481	.....	6156
Studebaker Big 6 120.....(1927)	.....	7092	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2307	4207	.....	.....	.....	6603	6481	6156	.....
Studebaker Big 6 EP.....(1927)	.....	7092	7093	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2308	4308	.....	.....	.....	6603	6481	6156	6156
Studebaker Spec. 6.....(1927)	.....	6631	6654	6105	6105	2205	.....	2201	2203	.....	.....	.....	.....	2308	4308	.....	.....	.....	6518	6388	6149	6149
Studebaker Std. 6.....(1927)	.....	6631	6654	6105	6105	2205	.....	2201	2203	.....	.....	.....	.....	2307	4207	.....	.....	.....	6510	6388	6639	6639
Studebaker Commander 6.....(1928)	7197	6631	6654	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2307	4207	8018A	.....	.....	6518	6388	6149	.....
Studebaker Dictator 6.....(1928)	7194	6631	6654	6105	6105	.....	.....	.....	2203	.....	.....	.....	.....	2307	4207	8018A	.....	.....	6510	6388	6639	.....
Studebaker President 8.....(1928)	7197	6631	6654	6105	6105	.....	.....	.....	2203	.....	2303	.....	.....	2209	4207	8018A	.....	.....	6518	6388	6149	.....
Studebaker Commander 6.....(1929)	7193	6557	6633	6075	6075	.....	.....	2201	2203	.....	.....	.....	.....	2207	2305	.....	.....	.....	6459	6370	7014	7014
Studebaker Commander 8.....(1929)	7193	6557	6633	6075	6075	.....	.....	2203	2203	.....	120	.....	.....	2307	2305	.....	.....	.....	6459	6370	.....	7014
Studebaker Dictator 6.....(1929)	7193	6557	6633	6075	6075	.....	.....	.....	2203	.....	.....	.....	.....	2309	4207	8018A	.....	.....	6459	6370	7014	7014
Studebaker President 8.....(1929)	7197	6637	6715	6105	6105	.....	.....	2203	2203	.....	120	.....	.....	2209	4207	.....	.....	.....	6518	6388	.....	6074
Studebaker President FE-FH..(1930)	7197	6637	6715	6105	6105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6518	6388	6074	6074
Studebaker Dictator FC-8.....(1930)	7193	6630	6656	6075	6075	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7008	6986	6515	.....
Studebaker Commander FD-8..(1930)	7193	6630	6657	6075	6075	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6459	6370	.....	7014
Studebaker Dictator GL.....(1930)	7193	6550	6551	6075	6075	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7008	6986	6515	.....
Stutz 693-4.....(1925)	.....	.....	.....	.....	.....	2205	.....	2201	2203	.....	.....	.....	.....	2209	2306	.....	.....	.....	.....	.....	.....	.....
Stutz 695.....(1925)	.....	6162	6566	6117	6117	2205	.....	.....	.....	.....	.....	.....	.....	2209	.....	.....	.....	.....	6146	6038	6116	.....
Stutz AA.....(1926)	.....	.....	7093	6750	6750	2205	.....	.....	.....	.....	.....	.....	.....	2209	2307	.....	.....	.....	6601	6479	6089	6089
Stutz AA.....(1927)	.....	.....	7093	6750	6750	2205	.....	2203	2204	2200	.....	.....	.....	2209	2307	.....	.....	.....	6601	6479	6089	6089
Stutz BB, 131" WB.....(1928)	.....	.....	7093	6750	6705	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6601	6479	6089	6089
Stutz BB, 145" WB.....(1928)	.....	.....	7093	6750	6750	2205	.....	2203	2204	2200	.....	.....	.....	2209	2307	.....	.....	.....	6146	6038	6102	6102
Stutz Series M.....(1929-30)	7196	.....	7093	6750	6750	.....	.....	2203	2204	2200	.....	.....	.....	2210	2307	.....	.....	.....	6146	6038	6102	6102
Velie 60.....(1925)	.....	6455	6084	6088	6088	.....	.....	2201	2203	.....	.....	.....	.....	2208	2306	.....	.....	.....	6055	6432	6629	.....
Velie 60.....(1926)	.....	6457	6084	6088	6088	.....	.....	2201	2203	.....	.....	.....	.....	2208	2306	.....	.....	.....	6055	6432	.....	6596
Velie Std. 50.....(1927-28)	7195	6457	6059	6079	6079	.....	.....	2202	2203	.....	.....	.....	.....	2207	2306	.....	.....	.....	7009	6986	7013	7013
Velie Spec. 60.....(1927-28)	7206	6457	6084	6088	6088	.....	.....	2201	2203	.....	.....	.....	.....	2208	2306	.....	.....	.....	6513	6388	6596	.....
Velie 6-66.....(1928)	7206	6457	6084	6088	6088	.....	.....	2201	.....	.....	.....	.....	.....	2207	2306	.....	.....	.....	6458	6381	7013	7013
Velie 6-77.....(1928)	7206	6457	6084	6088	6088	.....	.....	2201	2203	.....	.....	.....	.....	2208	2306	.....	.....	.....	6458	6381	7013	7013
Velie 88.....(1928)	7206	.....	7081	6123	6123	.....	.....	2203	.....	.....	.....	.....	.....	2209	2307	.....	.....	.....	6458	6381	6517	6517
Whippet 96, 4 cyl.....(1927)	7195	6481	6449	6079	6079	.....	.....	.....	.....	.....	2202	.....	.....	2207	2307	.....	.....	.....	7011	6986	.....	6522
Whippet 93-A, 6 cyl.....(1927)	7195	4306	2307	6079	6079	.....	.....	2201	.....	.....	2202	.....	.....	2208	2307	.....	.....	.....	7011	6986	2308	2308
Whippet 96, 4 cyl.....(1928)	7195	6481	6449	6079	6079	.....	.....	.....	.....	.....	2202	.....	.....	2207	2305	.....	.....	.....	7011	6986	6522	.....
Whippet 98, 6 cyl.....(1928)	7195	7046	6561	6079	6079	.....	.....	2201	.....	.....	2202	.....	.....	2208	2307	.....	.....	.....	7011	6986	6522	.....
Whippet 98-A.....(1929)	7195	7046	6561	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	2208	2307	.....	.....	.....	7011	6986	6522	.....
Whippet 96-A.....(1929)	7195	6481	6449	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	7023	6406	.....	.....	.....	7011	6986	6522	.....
Whippet 96-B.....(1930)	7195	6481	6449	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	7023	6407	.....	.....	.....	7011	6986	6523	.....
White Prince 8-82.....(1929)	.....	6457	6064	6088	6088	.....	.....	.....	.....	.....	2303	.....	.....	.....	2307	.....	.....	.....	7058	6381	6605	.....
White Prince.....(1930)	.....	6457	6518	6061	6061	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7009	6986	7013	7013
Windsor 80,82,92.....(1930)	.....	6457	6518	6061	6061	.....	.....	.....	.....	.....	2303	.....	.....	.....	2307	.....	.....	.....	7009	6986	7013	7013
Wills St. Claire 8.....(1925)	.....	7093	.....	6105	6105	2206	2209	2203	2204	2200	2303	3207	3206	2308	2308	2304	2305	2404	6601	6479	6091	6091
Wills St. Claire 6.....(1925-26)	.....	7093	.....	6105	6105	2206	.....	2203	2203	2200	2206	3207	3206	2211	2309	.....	2305	2404	6601	6479	6091	6091
Wills St. Claire 8.....(1926)	.....	7093	.....	6105	6105	2206	2209	2203	2204	2200	2303	3207	3207	2308	2308	2304	2305	2404	6601	6479	6091	6091
Willys 6.....(1930)	7195	7046	6561	6079	6079	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6986	.....	6522
Willys Knight 66.....(1925)	7032	4307	2407	6105	6105	.....	.....	2201	2203	.....	8272B	.....	.....	2210	4307	.....	.....	.....	6601	6481	2310	2310
Willys Knight 65.....(1925)	6369	4307	2407	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2210	4307	.....	.....	.....	6517	6380	2310	2310
Willys Knight 4-65.....(1926)	6369	4306	2406	6105	6105	.....	.....	2201	2203	.....	.....	.....	.....	2210	4307	.....	.....	.....	6517	6380	2310	2310
Willys Knight 6-66.....(1926)	7032	4307	2407	6105	6105	.....	.....	2202	2203	.....	8272B	.....	.....	2210	4307	.....	.....	.....	6601	6481	2310	2310
Willys Knight 66-A.....(1927)	7032	4307	2407	6105	6105	.....	.....	2203	2203	.....	8272B	.....	.....	2211	4308	.....	.....	.....	6601	6481	2310	2310
Willys Knight 70-A.....(1927)	6369	6551	6633	6100	6100	.....	.....	2202	2203	.....	2202	.....	.....	2208	2307	.....	.....	.....	6513	6378	2308	2308
Willys Knight 66-A.....(1928-29)	7032	4307	2407	6105	6105	.....	.....	2203	2203	.....	2302	.....	.....	2211	4308	.....	.....	.....	6601	6481	2310	2310
Willys Knight 6-70A.....(1928-29)	6369	6551	6633	6100	6100	.....	.....	2202	2203	.....	2202	.....	.....	2208	2307	.....	.....	.....	6513	6378	2308	2308
Willys Knight Std. 6-56.....(1928-29)	6369	7046	6561	6096	6096	.....	.....	2202	2203	.....	2202	.....	.....	2208	2307	.....	.....	.....	6513	6380	7013	7013
Willys Knight 66-B.....(1929)	7194	6633	6655	6122	6122	.....	.....	2203	2203	.....	2302	.....	.....	2211	4308	.....	.....	.....	6513	6378	7018	7018
Willys Knight 70-B.....(1929)	7194	7046	6561	6096	6096	.....	.....	2202	2203	.....	.....	.....	.....	2208	2307	.....	.....	.....	7011	6370	7013	7013
Willys Knight 56 Std.....(1929)	7194	7046	6561	6096	6096	.....	.....	.....	2203	.....	.....	.....	.....	2208	2307	.....	.....	.....	7011	6370	7013	7013
Willys Knight Great 6.....(1930)	7194	6633	6655	6097	6097	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6517	6378	7018	7018
Willys Knight 70-B.....(1930)	7193	7046	6561	6096	6096	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7011	6370	7013	7013

*4209 also used. †2307 with special chamfer also used. U.—Upper. R.—Right. L.—Left or Lower.

Digitized by Google

I N T E R C H A N G E A B I L I T Y D A T A

BEARINGS—Ball and Roller

CHILTON NUMBERS—S. A. E. NUMBERS—MANUFACTURERS' CORRESPONDING NUMBERS

This Table, Giving You Interchangeability Between Makes of Bearings, and the Table of Bearing Interchangeability by Passenger Car Makes and Bearing Installations, Starting Page 221, Provide the Most Complete and Usable Guide to Bearings Ever Published

Still Further Increasing the Value of This Section Are the Advertisements of Many of the Bearing Manufacturers, Giving Lists of Distributors, Etc.

See Under Various Bearing Headings in Classified Buyers' Section

BALL BEARINGS—Single Row Radial (CHILTON NUMBERS, *Series* 2200, 2300, 2400)

CHILTON NUMBER	S.A.E. Number	BCA—Bearings Co. of America	CJB—Ahlberg Bearing Co.	F&S—C & C Sales Corp. (Imported)	Fafnir	Federal	Gurney	Hoover	New Departure		Norma-Hoffmann	RBF	RHL (Imported)	R.I.V. (Imported)	Schubert	SKF		S.R.B.	Strom	Torrington
									Maximum Capacity Type	Non-Loading Groove Type						Deep Groove Hess-Bright	Self-Aligning			
2200	200	200	6200	A-10	200	1200	200-C	200	1200	3200	200	6200	7200	04-A	200	6200	1200	200	200	T-200
2201	201	201	6201	A-12	201	1201	201-C	201	1201	3201	201	6201	7201	03-A	201	6201	1201	201	201	T-201
2202	202	202	6202	A-15	202	1202	202-C	202	1202	3202	202	6202	7202	02-A	202	6202	1202	202	202	T-202
2203	203	203	6203	A-17	203	1203	203-C	203	1203	3203	203	6203	7203	01-A	203	6203	1203	203	203	T-203
2204	204	204	6204	A-20	204	1204	204-C	204	1204	3204	204	6204	7204	1-A	204	6204	1204	204	204	T-204
2205	205	205	6205	A-25	205	1205	205-C	205	1205	3205	205	6205	7205	2-A	205	6205	1205	205	205	T-205
2206	206	206	6206	A-30	206	1206	206-C	206	1206	3206	206	6206	7206	3-A	206	6206	1206	206	206	.....
2207	207	207	6207	A-35	207	1207	207-C	207	1207	3207	207	6207	7207	4-A	207	6207	1207	207	207	.....
2208	208	208	6208	A-40	208	1208	208-C	208	1208	3208	208	6208	7208	5-A	208	6208	1208	208	208	.....
2209	209	209	6209	A-45	209	1209	209-C	209	1209	3209	209	6209	7209	6-A	209	6209	1209	209	209	.....
2210	210	210	6210	A-50	210	1210	210-C	210	1210	3210	210	6210	7210	7-A	210	6210	1210	210	210	.....
2211	211	211	6211	A-55	211	1211	211-C	211	1211	3211	155	6211	7211	8-A	211	6211	1211	211	211	.....
2212	212	212	6212	A-60	212	1212	212-C	212	1212	3212	160	6212	7212	9-A	212	6212	1212	212	212	.....
2213	213	213	6213	A-65	213	1213	213-C	213	1213	3213	165	6213	7213	10-A	213	6213	1213	213	213	.....
2214	214	214	6214	A-70	214	1214	214-C	214	1214	3214	170	6214	7214	11-A	214	6214	1214	214	214	.....
2215	215	215	6215	A-75	215	1215	215-C	215	1215	3215	175	6215	7215	12-A	215	6215	1215	215	215	.....
2216	216	216	6216	A-80	216	1216	216-C	216	1216	3216	180	6216	7216	13-A	216	6216	1216	216	216	.....
2217	217	217	6217	A-85	217	1217	217-C	217	1217	3217	185	6217	7217	14-A	217	6217	1217	217	217	.....
2218	218	218	6218	A-90	218	1218	218-C	218	1218	3218	190	6218	7218	15-A	218	6218	1218	218	218	.....
2219	219	219	6219	A-95	219	1219	219-C	219	1219	3219	195	6219	7219	16-A	219	6219	1219	219	219	.....
2220	220	220	6220	A-100	220	1220	220-C	220	1220	3220	200-H	6220	7220	17-A	220	6220	1220	220	220	.....
2221	221	221	6221	A-105	221	1221	221-C	221	1221	3221	205-H	6221	7221	18-A	221	6221	1221	221	221	.....
2222	222	222	6222	A-110	222	1222	222-C	222	1222	3222	210-H	6222	7222	19-A	222	6222	1222	222	222	.....
2224	224	.....	.....	.....	.....	.....	.....	224	.....	.....	220-H	.....	.....	.....	.....	.....	.....	.....	.....	.....
2300	300	300	6300	B-10	300	1300	300-C	300	1300	3300	300	6300	7300	1-B	300	6300	1300	300	300	T-300
2301	301	301	6301	B-12	301	1301	301-C	301	1301	3301	301	6301	7301	2-B	301	6301	1301	301	301	T-301
2302	302	302	6302	B-15	302	1302	302-C	302	1302	3302	302	6302	7302	3-B	302	6302	1302	302	302	T-302
2303	303	303	6303	B-17	303	1303	303-C	303	1303	3303	303	6303	7303	4-B	303	6303	1303	303	303	T-303
2304	304	304	6304	B-19	304	1304	304-C	304	1304	3304	304	6304	7304	5-B	304	6304	1304	304	304	T-304
2305	305	305	6305	B-25	305	1305	305-C	305	1305	3305	305	6305	7305	6-B	305	6305	1305	305	305	.....
2306	306	306	6306	B-30	306	1306	306-C	306	1306	3306	306	6306	7306	7-B	306	6306	1306	306	306	.....
2307	307	307	6307	B-35	307	1307	307-C	307	1307	3307	307	6307	7307	8-B	307	6307	1307	307	307	.....
2308	308	308	6308	B-40	308	1308	308-C	308	1308	3308	308	6308	7308	9-B	308	6308	1308	308	308	.....
2309	309	309	6309	B-45	309	1309	309-C	309	1309	3309	309	6309	7309	10-B	309	6309	1309	309	309	.....
2310	310	310	6310	B-50	310	1310	310-C	310	1310	3310	350	6310	7310	11-B	310	6310	1310	310	310	.....
2311	311	311	6311	B-55	311	1311	311-C	311	1311	3311	355	6311	7311	12-B	311	6311	1311	311	311	.....
2312	312	312	6312	B-60	312	1312	312-C	312	1312	3312	360	6312	7312	13-B	312	6312	1312	312	312	.....
2313	313	313	6313	B-65	313	1313	313-C	313	1313	3313	365	6313	7313	14-B	313	6313	1313	313	313	.....
2314	314	314	6314	B-70	314	1314	314-C	314	1314	3314	370	6314	7314	15-B	314	6314	1314	314	314	.....
2315	315	315	6315	B-75	315	1315	315-C	315	1315	3315	375	6315	7315	16-B	315	6315	1315	315	315	.....
2316	316	316	6316	B-80	316	1316	316-C	316	1316	3316	380	6316	7316	17-B	316	6316	1316	316	316	.....
2317	317	317	6317	B-85	317	1317	317-C	317	1317	3317	385	6317	7317	18-B	317	6317	1317	317	317	.....
2318	318	318	6318	B-90	318	1318	318-C	318	1318	3318	390	6318	7318	19-B	318	6318	1318	318	318	.....
2319	319	319	6319	B-95	319	1319	319-C	319	1319	3319	395	6319	7319	20-B	319	6319	1319	319	319	.....
2320	320	320	6320	B-100	320	1320	320-C	320	1320	3320	400	6320	7320	21-B	320	6320	1320	320	320	.....
2321	321	321	6321	B-105	321	1321	321-C	321	1321	3321	405-H	6321	7321	22-B	321	6321	1321	321	321	.....
2322	322	322	6322	B-110	322	1322	322-C	322	1322	3322	410-H	6322	7322	23-B	322	6322	1322	322	322	.....
2324	324	.....	.....	.....	.....	.....	.....	324	.....	.....	420-H	.....	.....	.....	.....	.....	1324	.....	.....	.....
2403	403	403	6403	C-17	403	1403	403-C	403	.....	.....	517	6403	7403	1-C	403	.....	.....	403	403	.....
2404	404	404	6404	C-20	404	1404	404-C	404	1404	3404	520	6404	7404	2-C	404	.....	.....	404	404	.....
2405	405	405	6405	C-25	405	1405	405-C	405	1405	3405	525	6405	7405	3-C	405	6405	405	405	405	.....
2046	406	406	6406	C-30	406	1406	406-C	406	1406	3406	530	6406	7406	4-C	406	6406	406	406	406	.....
2407	407	407	6407	C-35	407	1407	407-C	407	1407	3407	535	6407	7407	5-C	407	6407	407	407	407	.....
2408	408	408	6408	C-40	408	1408	408-C	408	1408	3408	540	6408	7408	6-C	408	6408	408	408	408	.....
2409	409	409	6409	C-45	409	1409	409-C	409	1409	3409	545	6409	7409	7-C	409	6409	409	409	409	.....
2410	410	410	6410	C-50	410	1410	410-C	410	1410	3410	550	6410	7410	8-C	410	6410	410	410	410	.....
2411	411	411	6411	C-55	411	1411	411-C	411	1411	3411	555	6411	7411	9-C	411	6411	411	411	411	.....
2412	412	412	6412	C-60	412	1412	412-C	412	1412	3412	560	6412	7412	10-C	412	6412	412	412	412	.....
2413	413	413	6413	C-65	413	1413	413-C	413	1413	3413	565	6413	7413	11-C	413	6413	413	413	413	.....
2414	414	414	6414	C-70	414	1414	414-C	414	1414	3414	570	6414	7414	12-C	414	6414	414	414	414	.....
2415	415	415	6415	C-75	415	1415	415-C	415	1415	3415	575	6415	7415	.....	415	6415	415	415	415	.....
2416	416	416	6416	C-80	416	1416	416-C	416	1416	3416	580	6416	7416	13-C	416	6416	416	416	416	.....
2417	417	417	6417	C-85	417	1417	417-C	417	1417	3417	585	6417	7417	.....	417	6417	417	417	417	.....
2418	418	418	6418	C-90	418	1418	418-C	418	1418	3418	590	6418	7418	14-C	418	6418	418	418	418	.....
2419	419	419	6419	C-95	419	1419	419-C	419	1419	3419	595	6419	7419	.....	419	.....	.....	419	419	.....
2420	420	420	6420	C-100	420	1420	420-C	420	1420	3420	600	6420	7420	15-C	420	.....	.....	420	420	.....
2421	421	.....	.....	.....	.....	.....	421-C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	421	.....
2422	422	.....	.....	.....	.....	.....	422-C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	422	.....

Digitized by Google

I N T E R C H A N G E A B I L I T Y D A T A

BEARINGS—Continued

BALL BEARINGS—Single-Row Radial Thrust (CHILTON NUMBERS, *Series* 3200, 3300, 3400)

CHILTON NUMBER	S.A.E. Number	BCA—Bearings Co. of America	CJB—Ahlberg Bearing Co.	F&S—C & C Sales Corp. (Imported)	Fafnir	Federal	Gurney		Hoover	New Departure		Norma-Hoffmann	RBF (Imported)	Schubert	SKF	Strom
							100% Thrust	200% Thrust		Radax Type 0	Radax 20,000 Series					
3200	7200	7200	.....	AS-10	7200	7200	.....	7200	0200	0200	.....	110-AC	200-Z	7200	.....	7200
3201	7201	7201	.....	AS-12	7201	7201	.....	7201	0201	0201	.....	112-AC	201-Z	7201	.....	7201
3202	7202	7202	.....	AS-15	7202	7202	202-R	7202	0202	0202	.....	115-AC	202-Z	7202	.....	7202
3203	7203	7203	.....	AS-17	7203	7203	203-R	7203	0203	0203	.....	117-AC	203-Z	7203	.....	7203
3204	7204	7204	4204	AS-20	7204	7204	204-R	7204	0204	0204	20204	120-AC	204-Z	7204	.....	7204
3205	7205	7205	4205	AS-25	7205	7205	205-R	7205	0205	0205	20205	125-AC	205-Z	7205	7205	7205
3206	7206	7206	4206	AS-30	7206	7206	206-R	7206	0206	0206	20206	130-AC	206-Z	7206	7206	7206
3207	7207	7207	4207	AS-35	7207	7207	207-R	7207	0207	0207	20207	135-AC	207-Z	7207	7207	7207
3208	7208	7208	4208	AS-40	7208	7208	208-R	7208	0208	0208	20208	140-AC	208-Z	7208	7208	7208
3209	7209	7209	4209	AS-45	7209	7209	209-R	7209	0209	0209	20209	145-AC	209-Z	7209	7209	7209
3210	7210	7210	4210	AS-50	7210	7210	210-R	7210	0210	0210	20210	150-AC	210-Z	7210	7210	7210
3211	7211	7211	4211	AS-55	7211	7211	211-R	7211	0211	0211	20211	155-AC	211-Z	7211	7211	7211
3212	7212	7212	4212	AS-60	7212	7212	212-R	7212	0212	0212	20212	160-AC	212-Z	7212	7212	7212
3213	7213	7213	4213	AS-65	7213	7213	213-R	7213	0213	0213	20213	165-AC	213-Z	7213	7213	7213
3214	7214	7214	4214	AS-70	7214	7214	214-R	7214	0214	0214	20214	170-AC	214-Z	7214	7214	7214
3215	7215	7215	4215	AS-75	7215	7215	215-R	7215	0215	0215	20215	175-AC	215-Z	7215	7215	7215
3216	7216	7216	4216	AS-80	7216	7216	216-R	7216	0216	0216	20216	180-AC	216-Z	7216	7216	7216
3217	7217	7217	4217	AS-85	7217	7217	217-R	7217	0217	0217	20217	185-AC	217-Z	7217	7217	7217
3218	7218	7218	4218	AS-90	7218	7218	218-R	7218	0218	0218	20218	190-AC	218-Z	7218	7218	7218
3219	7219	7219	4219	AS-95	7219	7219	219-R	7219	0219	0219	20219	195-AC	219-Z	7219	7219	7219
3220	7220	7220	4220	AS-100	7220	7220	220-R	7220	0220	0220	20220	200-AC	220-Z	7220	7220	7220
3221	7221	7221	4221	AS-105	7221	7221	221-R	7221	.....	.....	20221	205-AC	221-Z	7221	7221	7221
3222	7222	7222	4222	AS-110	7222	7222	222-R	7222	.....	.....	20222	210-AC	222-Z	7222	7222	7222
3300	7300	7300	.....	BS-10	7300	7300	.....	7300	.....	.....	.....	310-AC	300-Z	7300	.....	7300
3301	7301	7301	.....	BS-12	7301	7301	.....	7301	.....	.....	.....	312-AC	301-Z	7301	.....	7301
3302	7302	7302	.....	BS-15	7302	7302	302-R	7302	.....	.....	.....	315-AC	302-Z	7302	.....	7302
3303	7303	7303	.....	BS-17	7303	7303	303-R	7303	0303	0303	.....	317-AC	303-Z	7303	.....	7303
3304	7304	7304	4304	BS-20	7304	7304	304-R	7304	0304	0304	20304	320-AC	304-Z	7304	.....	7304
3305	7305	7305	4305	BS-25	7305	7305	305-R	7305	0305	0305	20305	325-AC	305-Z	7305	7305	7305
3306	7306	7306	4306	BS-30	7306	7306	306-R	7306	0306	0306	20306	330-AC	306-Z	7306	7306	7306
3307	7307	7307	4307	BS-35	7307	7307	307-R	7307	0307	0307	20307	335-AC	307-Z	7307	7307	7307
3308	7308	7308	4308	BS-40	7308	7308	308-R	7308	0308	0308	20308	340-AC	308-Z	7308	7308	7308
3309	7309	7309	4309	BS-45	7309	7309	309-R	7309	0309	0309	20309	345-AC	309-Z	7309	7309	7309
3310	7310	7310	4310	BS-50	7310	7310	310-R	7310	0310	0310	20310	350-AC	310-Z	7310	7310	7310
3311	7311	7311	4311	BS-55	7311	7311	311-R	7311	0311	0311	20311	355-AC	311-Z	7311	7311	7311
3312	7312	7312	4312	BS-60	7312	7312	312-R	7312	0312	0312	20312	360-AC	312-Z	7312	7312	7312
3313	7313	7313	4313	BS-65	7313	7313	313-R	7313	0313	0313	20313	365-AC	313-Z	7313	7313	7313
3314	7314	7314	4314	BS-70	7314	7314	314-R	7314	0314	0314	20314	370-AC	314-Z	7314	7314	7314
3315	7315	7315	4315	BS-75	7315	7315	315-R	7315	0315	0315	20315	375-AC	315-Z	7315	7315	7315
3316	7316	7316	4316	BS-80	7316	7316	316-R	7316	.....	.....	20316	380-AC	316-Z	7316	7316	7316
3317	7317	7317	4317	BS-85	7317	7317	317-R	7317	.....	.....	20317	385-AC	317-Z	7317	7317	7317
3318	7318	7318	4318	BS-90	7318	7318	318-R	7318	.....	.....	20318	390-AC	318-Z	7318	7318	7318
3319	7319	7319	4319	BS-95	7319	7319	319-R	7319	.....	.....	20319	395-AC	319-Z	7319	7319	7319
3320	7320	7320	4320	BS-100	7320	7320	320-R	7320	.....	.....	20320	400-AC	320-Z	7320	7320	7320
3321	7321	7321	4321	BS-105	7321	7321	321-R	7321	.....	.....	20321	405-AC	321-Z	7321	7321	7321
3322	7322	7322	4322	BS-110	7322	7322	322-R	7322	.....	.....	20322	410-AC	322-Z	7322	7322	7322
3403	7403	7403	4403	CS-17	7403	7403	403-R	7403	.....	.....	.....	517-AC	403-Z	7403	.....	7403
3404	7404	7404	4404	CS-20	7404	7404	404-R	7404	0404	0404	20404	520-AC	404-Z	7404	.....	7404
3405	7405	7405	4405	CS-25	7405	7405	405-R	7405	0405	0405	20405	525-AC	405-Z	7405	7405	7405
3406	7406	7406	4406	CS-30	7406	7406	406-R	7406	0406	0406	20406	530-AC	406-Z	7406	7406	7406
3407	7407	7407	4407	CS-35	7407	7407	407-R	7407	0407	0407	20407	535-AC	407-Z	7407	7407	7407
3408	7408	7408	4408	CS-40	7408	7408	408-R	7408	0408	0408	20408	540-AC	408-Z	7408	7408	7408
3409	7409	7409	4409	CS-45	7409	7409	409-R	7409	0409	0409	20409	545-AC	409-Z	7409	7409	7409
3410	7410	7410	4410	CS-50	7410	7410	410-R	7410	.....	.....	20410	550-AC	410-Z	7410	7410	7410
3411	7411	7411	4411	CS-55	7411	7411	411-R	7411	.....	.....	20411	555-AC	411-Z	7411	7411	7411
3412	7412	7412	4412	CS-60	7412	7412	412-R	7412	.....	.....	20412	560-AC	412-Z	7412	7412	7412
3413	7413	7413	4413	CS-65	7413	7413	413-R	7413	.....	.....	20413	565-AC	413-Z	7413	7413	7413
3414	7414	7414	4414	CS-70	7414	7414	414-R	7414	.....	.....	20414	570-AC	414-Z	7414	7414	7414
3415	7415	7415	4415	CS-75	7415	7415	415-R	7415	.....	.....	20415	575-AC	.....	7415	7415	7415
3416	7416	7416	4416	CS-80	7416	7416	416-R	7416	.....	.....	20416	580-AC	416-Z	7416	7416	7416
3417	7417	7417	4417	CS-85	7417	7417	417-R	7417	.....	.....	20417	585-AC	.....	7417	7417	7417
3418	7418	7418	4418	CS-90	7418	7418	418-R	7418	.....	.....	20418	590-AC	418-Z	7418	7418	7418
3419	.....	7419	4419	CS-95	7419	7419	419-R	7419	.....	.....	.....	595-AC	.....	7419	7419	7419
3420	.....	7420	4420	CS-100	7420	7420	420-R	7420	.....	.....	.....	600-AC	420-Z	7420	7420	7420
3421	.....	.....	.....	.....	.....	7421	421-R	7421	.....	.....	.....	.....	.....	.....	.....	7421
3422	.....	.....	.....	.....	.....	7422	422-R	7422	.....	.....	.....	.....	.....	.....	.....	7422

Digitized by Google

INTERCHANGEABILITY DATA

BEARINGS—Continued

BALL BEARINGS—Double Row (CHILTON NUMBERS, *Series* 4200, 4300, 4400)

CHILTON NUMBER	S.A.E. Number	CJB—Ahlberg Bearing Co.	F&S—C & C Sales Corp. (Imported)	Fafnir	Federal	Gurney	SKF & Hess-Bright	MRC	New Departure	RBF	RHL (Imported)	R.I.V. (Imported)	Schubert	S.R.B.	Strom
4200	5200	.....	AA-10	200-DR	5200	5200	5200	5200	5200	.....	.....	1490	5202	5200	5200-A
4201	5201	.....	AA-12	201-DR	5201	5201	5201	5201	5201	.....	.....	1491	5203	5201	5201-A
4202	5202	.....	AA-15	202-DR	5202	5202	5202	5202	5202	.....	.....	1492	5204	5202	5202-A
4203	5203	.....	AA-17	203-DR	5203	5203	5203	5203	5203	.....	.....	1493	5205	5203	5203-A
4204	5204	5204	AA-20	204-DR	5204	5204	5204	5204	5204	204-NC	6204-NA	1494	5206	5204	5204-A
4205	5205	5205	AA-25	205-DR	5205	5205	5205	5205	5205	205-NC	6205-NA	1495	5207	5205	5205-A
4206	5206	5206	AA-30	206-DR	5206	5206	5206	5206	5206	206-NC	6206-NA	1496	5208	5206	5206-A
4207	5207	5207	AA-35	207-DR	5207	5207	5207	5207	5207	207-NC	6207-NA	1497	5209	5207	5207-A
4208	5208	5208	AA-40	208-DR	5208	5208	5208	5208	5208	208-NC	6208-NA	1498	5210	5208	5208-A
4209	5209	5209	AA-45	209-DR	5209	5209	5209	5209	5209	209-NC	6209-NA	1499	5211	5209	5209-A
4210	5210	5210	AA-50	210-DR	5210	5210	5210	5210	5210	210-NC	6210-NA	1500	5212	5210	5210-A
4211	5211	5211	AA-55	211-DR	5211	5211	5211	5211	5211	211-NC	6211-NA	1501	5213	5211	5211-A
4212	5212	5212	AA-60	212-DR	5212	5212	5212	5212	5212	212-NC	6212-NA	1502	5214	5212	5212-A
4213	5213	5213	AA-65	213-DR	5213	5213	5213	5213	5213	213-NC	6213-NA	1503	5215	5213	5213-A
4214	5214	5214	AA-70	214-DR	5214	5214	5214	5214	5214	214-NC	6214-NA	1504	5216	5214	5214-A
4215	5215	5215	AA-75	215-DR	5215	5215	5215	5215	5215	215-NC	6215-NA	1505	5217	5215	5215-A
4216	5216	5216	AA-80	216-DR	5216	5216	5216	5216	5216	216-NC	6216-NA	1506	5218	5216	5216-A
4217	5217	5217	AA-85	217-DR	5217	5217	5217	5217	5217	217-NC	6217-NA	1507	5219	5217	5217-A
4218	5218	5218	AA-90	218-DR	5218	5218	5218	5218	5218	218-NC	6218-NA	1508	5220	5218	5218-A
4219	5219	5219	AA-95	219-DR	5219	5219	5219	5219	5219	219-NC	6219-NA	.....	.....	5219	5219-A
4220	5220	5220	AA-100	220-DR	5220	5220	5220	5220	5220	220-NC	6220-NA	.....	.....	5220	5220-A
4221	5221	5221	AA-105	221-DR	5221	5221	5221	5221	.....	.....	6221-NA	.....	5221	5221	5221-A
4222	5222	5222	AA-110	222-DR	5222	5222	5222	5222	.....	.....	6222-NA	.....	5222	5222	5222-A
4300	5300	.....	BB-10	300-DR	5300	5300	.....	5300	5300	.....	.....	.....	.....	5300	5300-A
4301	5301	.....	BB-12	301-DR	5301	5301	5301	5301	5301	.....	.....	.....	.....	5301	5301-A
4302	5302	.....	BB-15	302-DR	5302	5302	5302	5302	5302	302-NC	6302-NA	3-BBN	5302	5302	5302-A
4303	5303	5303	BB-17	303-DR	5303	5303	5303	5303	5303	303-NC	6303-NA	1509	5303	5303	5303-A
4304	5304	5304	BB-20	304-DR	5304	5304	5304	5304	5304	304-NC	6304-NA	1510	5304	5304	5304-A
4305	5305	5305	BB-25	305-DR	5305	5305	5305	5305	5305	305-NC	6305-NA	1087	5305	5305	5305-A
4306	5306	5306	BB-30	306-DR	5306	5306	5306	5306	5306	306-NC	6306-NA	1201	5306	5306	5306-A
4307	5307	5307	BB-35	307-DR	5307	5307	5307	5307	5307	307-NC	6307-NA	1511	5307	5307	5307-A
4308	5308	5308	BB-40	308-DR	5308	5308	5308	5308	5308	308-NC	6308-NA	1512	5308	5308	5308-A
4309	5309	5309	BB-45	309-DR	5309	5309	5309	5309	5309	309-NC	6309-NA	1513	5309	5309	5309-A
4310	5310	5310	BB-50	310-DR	5310	5310	5310	5310	5310	310-NC	6310-NA	1514	5310	5310	5310-A
4311	5311	5311	BB-55	311-DR	5311	5311	5311	5311	5311	311-NC	6311-NA	1515	5311	5311	5311-A
4312	5312	5312	BB-60	312-DR	5312	5312	5312	5312	5312	312-NC	6312-NA	1516	5312	5312	5312-A
4313	5313	5313	BB-65	313-DR	5313	5313	5313	5313	5313	313-NC	6313-NA	1517	5313	5313	5313-A
4314	5314	5314	BB-70	314-DR	5314	5314	5314	5314	314	314-NC	6314-NA	1518	5314	5314	5314-A
4215	5315	5315	BB-75	315-DR	5315	5315	5315	5315	315	315-NC	6315-NA	1519	5315	5315	5315-A
4316	5316	5316	BB-80	316-DR	5316	5316	5316	5316	316	316-NC	6316-NA	17-BB	5316	5316	5316-A
4317	5317	5317	BB-85	317-DR	5317	5317	5317	5317	317	317-NC	6317-NA	1520	5317	5317	5317-A
4318	5318	5318	BB-90	318-DR	5318	5318	5318	5318	318	318-NC	6318-NA	19-BB	5318	5318	5318-A
4319	5319	5319	BB-95	319-DR	5319	5319	5319	5319	319	319-NC	6319-NA	1611	5319	5319	5319-A
4320	5320	5320	BB-100	320-DR	5320	5320	5320	5320	320	320 NC	6320 NA	21-BB	5320	5320	5320-A
4321	5321	5321	BB-105	321-DR	5321	5321	5321	5321	321	.....	6321-NA	22-BB	5321	5321	5321-A
4322	5322	5322	BB-110	322-DR	5322	5322	5322	5322	322	.....	6322-NA	23-BB	5322	5322	5322-A
4403	5403	5403	CC-17	403-DR	5403	5403	.....	5403	.....	.....	.....	.....	.....	5403	5403-A
4404	5404	5404	CC-20	404-DR	5404	5404	.....	5404	404	.....	.....	.....	.....	5404	5404-A
4405	5405	5405	CC-25	405-DR	5405	5405	5405	5405	405	405-NC	.....	1521	5405	5405	5405-A
4406	5406	5406	CC-30	406-DR	5406	5406	5406	5406	406	406-NC	.....	1522	5406	5406	5406-A
4407	5407	5407	CC-35	407-DR	5407	5407	5407	5407	407	407-NC	.....	1523	5407	5407	5407-A
4408	5408	5408	CC-40	408-DR	5408	5408	5408	5408	5408	408-NC	.....	1524	5408	5408	5408-A
4409	5409	5409	CC-45	409-DR	5409	5409	5409	5409	5409	409-NC	.....	1525	5409	5409	5409-A
4410	5410	5410	CC-50	410-DR	5410	5410	5410	5410	410	410-NC	.....	1526	5410	5410	5410-A
4411	5411	5411	CC-55	411-DR	5411	5411	5411	5411	411	411-NC	.....	1527	5411	5411	5411-A
4412	5412	5412	CC-60	412-DR	5412	5412	5412	5412	412	412-NC	.....	1528	5412	5412	5412-A
4413	5413	5413	CC-65	413-DR	5413	5413	5413	5413	413	413-NC	.....	11-CC	5413	5413	5413-A
4414	5414	5414	CC-70	414-DR	5414	5414	5414	5414	414	.....	.....	12-CC	5414	5414	5414-A
4415	5415	5415	CC-75	415-DR	5415	5415	5415	5415	.....	.....	.....	.....	5415	5415	5415-A
4416	5416	5416	CC-80	416-DR	5416	5416	5416	5416	.....	.....	.....	13-CC	5416	5416	5416-A
4417	5417	5417	CC-85	417-DR	5417	5417	5417	5417	.....	.....	.....	.....	5417	5417	5417-A
4418	5418	5418	CC-90	418-DR	5418	5418	5418	5418	.....	.....	.....	14-CC	5418	5418	5418-A
4419	5419	5419	CC-95	419-DR	5419	5419	.....	5419	.....	.....	.....	.....	5419	5419	5419-A
4420	5420	5420	CC-100	420-DR	5420	5420	.....	5420	.....	.....	.....	15-CC	5420	5420	5420-A
4421	.....	.....	.....	.....	.....	5421	.....	.....	.....	.....	.....	.....	.....	.....	.....
4422	.....	.....	.....	.....	.....	5422	.....	.....	.....	.....	.....	.....	.....	.....	.....

Digitized by Google

INTERCHANGEABILITY DATA

BEARINGS—Continued

ROLLER BEARINGS—Tapered (CHILTON NUMBERS, *Series* 6000, 7000)

CHILTON NUMBER	S.A.E	Pratt	Timken
6000			11-13
6001			235
6002		235-2320	235-2320
6003			235-2330
6004			236-2320
6006		237-233	237-233
6007		255-2520	255-2520
6008		256-2520	256-2520
6010		257	257
6011		257-2520	257-2520
6020		277-273	277-273
6021		277-274	277-274
6032		290-284	290-284
6033		306	306
6036			360-21212
6037		315-312	315-312
6038		316-312	316-312
6039			316-313
6041		317-312	317-312
6046		319-312	319-312
6047		319-313	319-313
6055		325-312	325-312
6056			325W-312
6057			335
6058	334-333	334-333	334-333
6059	335-3320	335-3320	335-3320
6060			335W-3320
6061			336-332
6062	336-3320	336-3320	336-3320
6064	337-3320	337-3320	337-3320
6065			337W-3320
6068	339-333	339-333	339-333
6071		341-3320	341-3320
6072			341W-3320
6074			342-332
6075			342S-332
6078			344-3320
6079	344-333	344-333	344-333
6080			344-332
6082		347-332	347-332
6083	346-3320	346-3320	346-3320
6084		347-3320	347-3320
6085		349-3320	349-3320
6086		349W-3320	349W-3320
6087	350-352	350-352	350-352
6088		355-3520	355-3520
6089	355-353		355-353
6090			355-354A
6091			355-354
6092			357-3520
6093		357-354	357-354
6094		357-353	357-353
6095		358-354A	358-354A
6096	358-354	358-354	358-354
6097			359S-354A
6098		358-3520	358-3520
6099		359S-3520	359S-3520
6 00	359S-354		359S-354
6101	359-354		359-354
6102		359S-353	359S-353
6104		366-362	366-362
6105	366-363	366-363	366-363
6109		370-362	370-362
6110	375-3720	375-3720	375-3720
6111			375-373
6113	377-372		377-372
6114			377-373
6115		376-373	376-373
6116		376-3720	376-3720
6117	377-3720	377-3720	377-3720
6118	385-383	385-383	385-383
6120			387-383
6122			395S-394A
6123			395-394A
6124	395-3920	395-3920	395-3920
6131		397-394	397-394
6132		397-3920	397-3920
6134		414-412	414-412
6135		415-412	415-412
6136		415T-412	415T-412
6137		415T-412A	415T-412A
6138		415-412A	415-412A
6139	415T-414	415T-414	415T-414
6141			415-414
6143	416-414	416-414	416-414
6144		418-412	418-412
6145	418-414	418-414	418-414
6146		419-412	419-412
6147		419-414	419-414
6148		419-412A	419-412A
6149		419T-414	419T-414
6150		421-412A	421-412A
6151		420-414	420-414
6152	422-414	422-414	422-414
6153	422T-414	422T-414	422T-414
6154		435-4320	435-4320
6155	435T-4320	435T-4320	435T-4320
6156		435T-432	435T-432
6157			435-432
6158			436-4320
6159	438-432	438-432	438-432
6160			438-4320
6161		439-4320	439-4320
6162		439-432	439-432
6163	439T-432	439T-432	439T-432
6164	439-432A	439-432A	439-432A
6165		436-453	436-453
6167		444-4320	444-4320
6173	444-432	444-432	444-432
6174			443-4320
6176	4 0-4320	440-4320	440-4320
6181		447-432A	447-432A
6182		447-432	447-432
6184	449-432	449-432	449-432
6185			449-4320
6188		455-452	455-452
6189			455-4520
6190	455-453A	455-453A	455-453A
6191		455-453	455-453
6193		456-452	456-452
6194	456-4520		456-4520
6195		456-453	456-453
6196		456-453A	456-453A
6198		457-453	457-453
6201		458-452	458-452
6202		458T-452	458T-452
6204		458T-454	458T-454
6213		462-454	462-454
6214		462-452	462-452
6215			462-453
6216	462-455		462-455
6217	462-453A		462-453A
6219		463-452	463-452
6225			465-454
6228		467T-452	467T-452
6230			468T-453A
6235	478-472A		478-472A
6236		477-473	477-473
6237	478-472		478-472
6238		478-473	478-473
6239	480-472		480-472
6240		480-473	480-473
6241	482-472	482-472	482-472
6247	526-522		526-522
6248	527-522		527-522
6251	529-522		529-522
6253	535-534C	535-534C	535-534C
6254		535-532	535-532
6256	536T-532A		536T-532A
6257		536T-532	536T-532
6258	537-532A		537-532A
6259		537-532	537-532
6261		537T-532A	537T-532A
6263		539-532	539-532
6264	539-532A		539-532A
6265		539T-532	539T-532
6275		557-552	557-552
6278	559-552A		559-552A
6279		559-552	559-552
6283	560-552A		560-552A
6284		560-552	560-552
6286			565-563
6287	566-563	566-563	566-563
6289	567-563	567-563	567-563
6293	575-572		575-572
6296	580-572		580-752
6304		596-592	596-592
6306		598-592	598-592
6319	749-742	749-742	749-742
6320			750-742
6326	759-752	759-752	759-752
6331	780-772	780-772	780-772
6335	782-772	782-772	782-772
6369		1351-1330	1351-1330
6370		1380-1329	1380-1329
6378		1751-1729	1751-1729
6380		1751-1730	1751-1730
6381	1755-1729	1755-1729	1755-1729
6382			1755-1730
6386	1775-1729	1775-1729	1775-1729
6388		1779-1729	1779-1729
6403			1985
6405	1985-1931		1985-1931
6406		1986-1930	1986-1930
6407	1986-1931		1986-1931
6431		2381-2330	2381-2330
6432		2381-2320	2381-2320
6433		2382-2320	2382-2320
6434			2382-2330
6441		2554-2520	2554-2520
6448		2558-2520	2558-2520
6449	2558-2523		2558-2523
6450	2558		2558
6451		2559-2530	2559-2530
6454	2580-2523		2580-2523
6455			2580-2520
6456		2580W-2523	2580W-2523
6457			2580W-2520
6458	2581-2523		2581-2523
6459		2582-2523	2582-2523
6 60		2582-2530	2582-2530
6461	2582-2520		2582-2520
6462			2585-2523
6478			2684-2631
6479		2687-2620	2687-2620
6480			2684-2620
6481	2687-2631		2687-2631
6482		2689-2620	2689-2620
6483	2689-2631		2689-2631
6484		2690-2620	2690-2620
6485	2687-2630		2687-2630
6486		2691-2620	2691-2620
6510			2785-2729
6511		2785-2720	2785-2720
6512	2787T-2729	2787T-2729	2787T-2729
6513		2786-2720	2786-2720
6514	2786-2729		2786-2729
6515	2787-2720	2787-2720	2787-2720
6516		2787-2729	2787-2729
6517	2788-2720	2788-2720	2788-2720
6518			2788-2729
6521		2790-2729	2790-2729
6522			2790T-2729
6523		2790T-2720	2790T-2720
6525		2794-2732	2794-2732
6526		2796-2729	2796-2729
6545		3159-3120	3159-3120
6546		3160-3120	3160-3120
6547		3161-3120	3161-3120
6550		3187-3124	3187-3124
6551			3187-3130
6552	3188-3120		3188-3120
6553			3188A-3120A
6554	3189-3120	3189-3120	3189-3120
6555		3190-3120	3190-3120
6556	3191-3120	3191-3120	3191-3120
6557			3191-3128
6558		3188-3130	3188-3130
6561	3193-3120	3193-3120	3193-3120
6563		3196-3120	3196-3120
6564		3196T-3120	3196T-3120
6565		3197-3120	3197-3120
6566		3198-3120A	3198-3120A
6567			3198-3129
6585		3360-3320	3360-3320

Digitized by Google

INTERCHANGEABILITY DATA

BEARINGS—Continued

ROLLER BEARINGS—Tapered—Continued (CHILTON NUMBERS, *Series* 6000, 7000)

CHILTON NUMBER	S.A.E.	Pratt	Timken
6593		3366-3320	3366-3320
6595			3367-3320
6596			3377T-3320
6597		3378-3331	3378-3331
6598		3379-3320	3379-3320
6599		3381T-3329	3381T-3329
6600			3380T-3320
6601		3381-3320	3381-3320
6602		3381T-3320	3381T-3320
6603			3381-3331
6604		3382-3320	3382-3320
6605		3382T-3320	3382T-3320
6606		3383-3320	3383-3320
6607			3385-3327
6608			3385T-3320
6609			3385-3320
6610		3383-3331	3383-3331
6629			3463-3422
6630			3474-3420
6631			3476-3421
6632	3477-3420	3477-3420	3477-3420
6633	3478-3420	3478-3420	3478-3420
6634	3478T-3420	3478T-3420	3478T-3420
6635		3477-3425	3477-3425
6636	3479T-3420	3479T-3420	3479T-3420
6637			3480-3420
6639		3490T-3420	3490T-3420
6648		3554-3520	3554-3520
6652		3575T-3525	3575T-3525
6653			3577-3520
6654	3577-3525	3577-3525	3577-3525
6655	3576-3525		3576-3525
6656			3581-3521
6657			3581-3525
6669		3656-3620	3656-3620
6672			3659
6674	3659-3620	3659-3620	3659-3620
6675			3659D-3621D
6676			3659K-3620
6677			3659K
6681		3750-3720	3750-3720
6704		3762-3720	3762-3720
6715			3776-3731
6716	3778-3720		3778-3720
6717	3780-3720		3780-3720
6748			3979-3920
6750	3982-3920	3982-3920	3982-3920
6755		4351-4320	4351-4320
6773		4361-4320	4361-4320
6778		4364-4320	4364-4320
6782		4367-4320	4367-4320
6783		4368-4320	4368-4320
6784			4370-4320
6785		4550-4520	4550-4520
6791		4553-4520	4553-4520
6792		4554-4520	4554-4520
6798		4558-4520	4558-4520
6800		4559-4520	4559-4520
6809		4580-4520	4580-4520
6810			4580-4524
6813		5351-5320	5351-5320
6818		5354-5320	5354-5320
6820		5355-5320	5355-5320
6821		5356-5320	5356-5320
6823		5358-5320	5358-5320
6830		5550-5520	5550-5520
6833		5553-5520	5553-5520
6834		5554-5520	5554-5520
6839		5557-5520	5557-5520
6840		5558-5520	5558-5520
6856		5578-5521	5578-5521
6857		5578-5520	5578-5520
6858			5582-5521
6864		5752-5720	5752-5720
6867		5755-5720	5755-5720
6868		5756-5720	5756-5720
6869		5757-5720	5757-5720
6872		5760-5720	5760-5720
6873		5784-5720	5784-5720
6875	6277-6220		6277-6220
6888		6553-6521	6553-6521
6893		6358-6320	6358-6320
6894		6358-6321	6358-6321

CHILTON NUMBER	S.A.E.	Hoover	Pratt	Timken
6897	6375-6323		6375-6323	6375-6323
6898				6375-6322
6899				6375-6320
6900			6375-6321	6375-6321
6901				6377-6321
6902			6378-6320	6378-6320
6903	6379-6320		6379-6320	6379-6320
6914				6455-6422
6915				6456-6422
6925			6552-6520	6552-6520
6926			6552-6521	6552-6521
6958				01755-01729
6959				02582-02523
6967	05079-05185		05079-05185	05079-05185
6972				07098-07024
6982	09070-09194	09070-09194	09070-09194	09070-09194
6985			09074-09193	09074-09193
6986	09074-09194	09074-09194	09074-09191	09074-09194
6987		09075-09174		09075-09174
6993			10062-10159	10062-10159
6996			11157-11315	11157-11315
6997				11158-11315
6998		14117-14274		14117-14274
6999		14120-14273	14120-14273	14120-14273
7001	14118-14283	14118-14283	14118-14283	14118-14283
7002				14118-14274
7007				14138-14274
7008	14125-14274	14125-14274	14125-14274	14125-14274
7009	14131-14274	14131-14274	14131-14274	14131-14274
7010			14132-14282	14132-14282
7011	14132-14274	14132-14274	14132-14274	14132-14274
7012				14131-14276
7013	14137-14274	14137-14274	14137-14274	14137-14274
7014		14138-14276		14138-14276
7015				14132-14276
7016				16143-16282
7017				16143-16284
7018				16150-16284
7020	17098-17244		17098-17244	17098-17244
7021	17118-17244		17118-17244	17118-17244
7023	19138-19283		19138-19283	19138-19283
7026			19150T-19283	19150T-19283
7028			20074-20181	20074-20181
7029			20074-20187	20074-20187
7030				20074
7031				20074-20188
7032	21075-21212		21075-21212	21075-21212
7033			21087-21212	21087-21212
7034			21088-21212	21088-21212
7035			23092-23256	23092-23256
7036				23093
7042				24112-24261
7046				26112-26274
7047				26112-26300
7048	26112-26283			26112-26283
7049				26117T-26283
7050	26118-26283		26118-26283	26118-26283
7053			26124T-26283	26124T-26283
7056				26131-26274
7057	26126-26283		26126-26283	26126-26283
7058	26131-26283		26131-26283	26131-26283
7059	28118-28315		28118-28315	28118-28315
7062				28138
7063	28138-28315		28138-28315	28138-28315
7065			28150-28316	28150-28316
7066				28158-28313
7070			28157-28315	28157-28315
7071				28158-28315
7074			29177-29334	29177-29334
7075			29178-29334	29178-29334
7076				32100
7079				39236-39433
7080	41100-41286		41100-41286	41100-41286
7081	41106-41286			41106-41286
7084			43112-43325	43112-43325
7085				43112-43315
7089			43125-43349	43125-43349
7090	43125-43312		43125-43312	43125-43312
7091	43131-43312		43131-43312	43131-43312
7092	44117-43312		44117-43312	44117-43312
7093	44150-44348		44150-44348	44150-44348
7094	44143-44348		44143-44348	44143-44348

CHILTON NUMBER	S.A.E.	Pratt	Timken
7097			44162-44150
7098	44162-44348		44162-44348
7101			53162-53386
7102	53162-53387	53162-53387	53162-53387
7105	53176-53387	53176-53387	53176-53387
7108			71450-71750
7111			72187-72487
7112	72200-72487	72200-72487	72200-72487
7113			72212-72487
7122	78216-78551	78216-78551	78216-78551
7125		78250-78551	78250-78551
7175			A-3044
7177			A-3123
7181			A-4221 A-4222
7182			A-6067-6157
7184			A-1201 A-1202
7185			A-1216 A-1217
7187		RO-261T RO-2527	RO-261T RO-2527
7188			R-317 R-312
7189			R-319 R-312
7191			A-4221 A-4616
7192			T-95
7193			T-82
7194			T-88
7195			T-76
7196			T-102
7197			T-101
7198			T-63
7199			T-113
7200			T-176
7201			T-127
7202			T-151
7203			T-144
7204			T-107
7205			T-83
7206			T-94

Digitized by Google

I N T E R C H A N G E A B I L I T Y D A T A

BEARINGS—Continued

ROLLER BEARINGS—STRAIGHT (CHILTON NUMBERS, *Series* 8000, 9000)

CHILTON NUMBER	Heliflex Flexible Type	Hyatt Flexible Type	Rollway Solid Type
ROLLER ASSEMBLIES			
8002-A	RBC-RA-121	RA-121	WS-1416
8007-A	RBC-RA-133	RA-133	WS-1716
8010-A	RBC-RA-135	RA-135	WS-1724
8011-A	RBC-RA-136	RA-136	WS-1728
8018-A	RBC-RA-145	RA-145	WS-8128
8021-A	RBC-RA-148	RA-148	WS-2026
8023-A	RBC-RA-149	RA-149	WS-2032
8028-A	RBC-RA-155	RA-155	.....
8032-A	RBC-RA-159	RA-159	WS-2132
COMPLETE BEARINGS			
8063	RBC-207	207	D-207-15
8072	RBC-SC-209	SC-209	.....
8074	RBC-TXW-209	TXW-209	.....
8077	RBC-SW-210	SW-210	.....
8080	RBC-W-211	W-211	D-211-29
8125	RBC-305	305	D-305-18
8128	RBC-N-306	N-306	D-306-15
8129	RBC-NC-306	NC-306	B-306-15
8131	RBC-307	307	D-307
8132	RBC-NC-307	NC-307	B-307-16
8135	RBC-308	308	D-308
8140	RBC-NC-309	NC-309	HXB-309-21
8149	RBC-312	312	D-312-17
8165	RBC-324	324	.....
8166	RBC-SC-403	SC-403	B-304
8167	RBC-SC-404	SC-404	.....
8168	RBC-S-405	S-405	.....
8169	RBC-S-406	S-406	SD-406
8170	RBC-407	407	.....

CHILTON NUMBER	Heliflex Flexible Type	Hyatt Flexible Type	Rollway Solid Type
8171	RBC-408	408	.....
8172	RBC-409	409	.....
8199	RBC-16079	16079	.....
8200	RBC-16080	16080	.....
8208	RBC-16124	16124	.....
8216	RBC-16148	16148	.....
8269	RBC-16415	16415	.....
8270	RBC-16421	16421	.....
8272	RBC-16455	16455	.....
8274	RBC-16465	16465	B-10039
8277	RBC-16476	16476	.....
8284	RBC-16506	16506	.....
8353	RBC-17093	17093	B-10024
8357	RBC-17103	17103	.....
8385	RBC-18127	18127	.....
8487	RBC-19081	19081	.....
8518	RBC-19200	19200	.....
8533	RBC-26056	26056	.....
8541	RBC-26069	26069	A-8632
8569	RBC-26329	26329	.....
8577	RBC-26401	26401	.....
8582	RBC-26469	26469	.....
8586	RBC-26480	26480	.....
8587	RBC-26482	26482	.....
8605	RBC-26668	26668	.....
8622	RBC-27056	27056	.....
8633	RBC-27095	27095	.....
8634	RBC-27096	27096	.....
8635	RBC-27097	27097	.....
8660	RBC-27787	27787	.....
8738	RBC-29097	29097	A-1940
8900	RBC-46394	46394	.....
8925	RBC-46618	46618	.....
8959	RBC-47026	47026	.....
9047	RBC-49275	49275	.....
9202	RBC-56777	56777	.....

CHILTON NUMBER	Heliflex Flexible Type	Hyatt Flexible Type	Rollway Solid Type
9209	RBC-57026	57026	.....
9310	RBC-600203	600203	.....
ROLLER ASSEMBLIES			
9317-A	.....	16945-RA	WS-2330
9318-A	.....	17980-RA	WS-2336
9320-A	.....	26954-RA	WS-1818
9321-A	.....	16953-RA	WS-8126
9322-A	.....	16820-RA	WS-2030
9323-A	.....	26922-RA	WS-1828
9324-A	.....	26972-RA	WS-1832
9325-A	.....	00523-RA	.....
9326-A	.....	16949-RA	WS-2132
9327-A	.....	16961-RA	.....
9328-A	.....	57996-RA	.....
9329-A	.....	26825-RA	.....
9330-A	.....	26996-RA	.....
9331-A	.....	26839-RA	.....
9332-A	.....	16935-RA	.....
9333-A	.....	16931-RA	.....
9334-A	.....	16930-RA	.....
9335-A	.....	17966-RA	.....
9336-A	.....	16936-RA	.....
9337-A	.....	15935-RA	.....
9338-A	.....	16933-RA	.....
9339-A	.....	17987-RA	WS-2536
9340-A	.....	00524-RA	.....
9341-A	.....	27977-RA	WS-2522
9342-A	.....	16948-RA	WS-2028
9343-A	.....	16944-RA	WS-2128
9344-A	.....	27988-RA	WS-7632
9345	.....	C-1207	.....
9346	.....	C-1308	.....

BALL BEARINGS—Magneto (CHILTON NUMBERS, *Series* 100)

CHILTON	S.A.E. Number	F&S C & C Sales (Imported)	Fafnir	Federal	New Departure	Norma-Hoffmann	RBF	RHL (Imported)	R.I.V. (Imported)	Torrington
105	5	E-5	.....	.....	.....	E-5	.....	.....	.....	T-5
106	6	.....	.....	.....	.....	.....	8106	.....	.....	.....
107	7	.....	7	.....	.....	.....	8107	.....	.....	.....
108	8	E-8	8	FB-8	8	E-8	8108	E-8	.....	T-8
109	9	E-9	9	FB-9	.....	E-9	8109	.....	.....	T-9
110	10	E-10	10	FB-10	10	E-10	8110	E-10	2-M	T-10
111	11	E-11	11	FB-11	.....	E-11	8111	.....	7-M	T-11
112	12	E-12	12	FB-12	12	E-12	8112	E-12	.....	T-12
113	13	E-13	13	FB-13	13	E-13	8113	E-13	3-M	T-13
114	14	E-14	14	FB-14	.....	E-14	8114	.....	.....	T-14
115	15	E-15	15	FB-15	15	E-15	8115	E-15	8-M	T-15
116	16	E-16	16	FB-16	16	E-16	8116	E-16	1696	T-16
117	17	E-17	17	FB-17	17	E-17	8117	E-17	12-M	T-17
118	18	E-18	18	FB-18	.....	.....	.....	.....	.....	.....
119	19	E-19	19	FB-19	.....	E-19	.....	.....	.....	T-19
120	.....	L-20	L-20	FB-20	20	L-20	8120	.....	13-M	TL-20
125	.....	L-25	L-25	FB-25	25	L-25	.....	.....	1252	TL-25

BEARINGS—Front Wheel (CHILTON NUMBERS, *Series* 500)

CHILTON NUMBER	CJB	Fafnir	Federal	Hoover	MRC	New Departure	Shafer (Roller Bearing)
501	1	10001	F-001	909001	1	909001	S-1
502	2	10002	F-002	909002	2	909002	S-2
503	.....	10003	F-003	.....	3	909003	C-70
504	.....	10004	F-004	.....	4	909004	C-152DP
505	.....	.....	.....	.....	5	.....	C-68
506	.....	.....	.....	.....	6	.....	C-151DP
507	.....	10007	F-007	.....	7	909007	C-72
508	.....	10008	F-008	.....	8	909008	C-154DP
509	.....	.....	F-009	.....	.....	909009	C-93

CHILTON NUMBER	CJB	Fafnir	Federal	Hoover	MRC	New Departure	Shafer (Roller Bearing)
510	.....	.....	F-010	.....	.....	909010	C-155DP
523	.....	.....	F-023	.....	23	909023	.....
524	.....	.....	F-024	.....	24	909024	.....
527	.....	.....	F-027	.....	27	909027	.....
528	.....	.....	F-028	.....	28	909028	.....
529	.....	.....	F-029	.....	29	909029	.....
530	.....	.....	F-030	.....	30	909030	.....

Digitized by Google

ROLLWAY

SOLID CYLINDRICAL ROLLER BEARINGS

The increasing use of Rollway Bearings as original equipment by a majority of the representative manufacturers of passenger cars and trucks and the consequent national distribution of same assure increasing replacement business.

On this basis it is necessary that we obtain distribution in territories that are not now taken care of.

Applications from responsible distributors are, therefore, solicited.

Rollway Solid Cylindrical Roller Bearings cover a complete line of interchangeable bearings for most of the principal passenger cars and trucks manufactured in the last five years, so that in addition to the regular renewal business, they can be used to advantage as replacements for other makes.

ROLLWAY BEARING COMPANY INCORPORATED
SYRACUSE NEW YORK

ROLLWAY CYLINDRICAL ROLLER BEARINGS

Digitized by Google

IGNITION SYSTEM

Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

1. Locate in the first column the car and models for which the part is needed.
2. Follow this line across to column pertaining to that part.
3. In this Part Column opposite your car model you will find the CHILTON NUMBER for the part you want.
4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from another local dealer.

Example: Suppose a Distributor Cap is needed for a Chevrolet AB (1928) car. Locate this car in the first column. Follow across to the column on Distributor Cap, which is the fourth column. Here you see the CHILTON NUMBER for this part is IC-24. The figure four (4) in parentheses means that this CHILTON NUMBER occurs four times in this column, indicating that three or more other models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number IC-24 opposite the Chrysler 50 (1927), Chrysler 52 (1928) and Plymouth (1929-30) cars. The Distributor Caps used in all these cars are interchangeable with the one in your Chevrolet AB (1928) car.

The make of ignition system used as standard equipment is shown immediately preceding the year. For key to abbreviations see end of table.

For Generator Parts, See Separate Table, Page 254
For Distributor Shaft Bearing Data, See Pages 221 to 240

Car Make and Model	Contact or Breaker Arm (See Footnote)	Contact Screw (See Footnote)	Distributor Cap (See Footnote)	Distributor Rotor (See Footnote)	Coil	Resistance Unit	Condenser	Distributor Shaft Gear or Coupling
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Ajax....A.-L. (1925-26)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-1 (4)
Anderson 41....A.-L. (1925)	IA-2 (2)	IB-2 (2)	IC-2 (1)	ID-2 (1)	IE-2 (56)	IF-2 (116)	None	IH-2 (1)
Anderson 50....R. (1925)	IA-3 (1)	IB-3 (1)	IC-7 (2)	ID-6 (10)	IE-2 (56)	IF-2 (116)	None	IH-3 (1)
Apperson 6....R. (1925)	IA-4 (184)	IB-4 (38)	IC-4 (11)	ID-4 (9)	IE-2 (56)	IF-2 (116)	IG-3 (26)	IH-4 (2)
Apperson Str. 8....R. (1925)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (56)	IF-2 (116)	IG-3 (26)	IH-5 (2)
Apperson 6....R. (1926)	IA-4 (184)	IB-4 (38)	IC-4 (11)	ID-4 (9)	IE-2 (56)	IF-2 (116)	IG-3 (26)	IH-4 (2)
Apperson Str. 8....R. (1926)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (56)	IF-2 (116)	IG-3 (26)	IH-5 (2)
Auburn 4....R. (1925)	IA-5 (8)	IB-5 (16)	IC-6 (6)	ID-6 (10)	IE-2 (56)	IF-2 (116)	None	IH-8 (76)
Auburn 6-43....R. (1925)	IA-5 (8)	IB-5 (16)	IC-7 (2)	ID-6 (10)	IE-2 (56)	IF-2 (116)	None	IH-6 (1)
Auburn 8-88....R. (1925)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (56)	IF-2 (116)	None	IH-8 (76)
Auburn 8-88....R. (1926)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (56)	IF-2 (116)	None	IH-8 (76)
Auburn 4-44....R. (1926-27)	IA-5 (8)	IB-5 (16)	IC-6 (6)	ID-6 (10)	IE-2 (2)	IF-2 (116)	None	IH-8 (76)
Auburn 6-66....R. (1926-27)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-3 (27)	IF-2 (116)	IG-3 (26)	IH-8 (76)
Auburn 6-66....A. R. (1927)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-6 (27)	IH-8 (76)
Auburn 8-88....R. (1927-28)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-3 (27)	IF-2 (116)	IG-7 (70)	IH-8 (76
Auburn 8-77....R. (1927-28)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-3 (37)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Auburn 76....D.-R. (1928-29)	IA-4 (184)	IB-8 (29)	IC-10 (18)	ID-10 (35)	IE-4 (44)	IF-2 (116)	IG-8 (7)	IH-8 (76)
Auburn 88....D.-R. (1928-29)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	IF-2 (116)	IG-4 (12)	IH-8 (76)
Auburn 115....D.-R. (1928-29)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	IF-2 (116)	IG-4 (12)	IH-8 (76)
Auburn 6-80....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-10 (18)	ID-10 (35)	IE-4 (44)	IF-2 (116)	IG-8 (7)	IH-8 (76)
Auburn 8-90....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-11 (6)	ID-9 (22)	IE-4 (44)	IF-2 (116)	IG-4 (12)	IH-8 (76)
Auburn 120....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-11 (6)	ID-5 (42)	IE-4 (44)	IF-2 (116)	IG-4 (12)	IH-8 (76)
Auburn 6-85....D.-R. (1930)	*IA-4 (184)	*IB-8 (29)	IC-10 (18)	ID-10 (35)	IE-6 (23)	None	IG-8 (7)	IH-8 (76)
Auburn 8-95....D.-R. (1930)	*IA-4 (184)	*IB-7 U. (73) / IB-31 L. (63)	IC-9 (22)	IC-11 (6)	IE-6 (23)	None	IG-4 (12)	IH-8 (76)
Auburn 8-125....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-11 (6)	ID-5 (42)	IE-6 (23)	None	IG-4 (12)	IH-8 (76)
Barley 6-50....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-12 (2)	ID-11 (1)	IE-5 (1)	IF-3 (83)	IG-9 (16)	IH-9 (1)
Blackhawk L6....D.-R. (1929-30)	†IA-4 (184)	†IB-10 (106)	IC-13 (1)	ID-12 (1)	IE-6 (23)	IF-4 (1)	IG-10 (39)	IH-7 (1)
Blackhawk L8....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-6 (23)	IF-5 (1)	IG-7 (70)	IH-10 (1)
Buick Master....D.-R. (1925)	IA-8 (41)	IB-10 (106)	IC-14 (6)	ID-13 (8)	IE-7 (2)	IF-3 (83)	IG-11 (10)	IH-11 (2)
Buick Std....D.-R. (1925)	IA-8 (41)	IB-10 (106)	IC-14 (6)	ID-13 (8)	IE-7 (2)	IF-3 (83)	IG-11 (10)	IH-11 (2)
Buick Master....D.-R. (1926)	IA-8 (41)	IB-10 (106)	IC-14 (6)	ID-13 (8)	IE-8 (6)	IF-3 (83)	IG-11 (10)	IH-12 (4)
Buick Std....D.-R. (1926)	IA-8 (41)	IB-10 (106)	IC-14 (6)	ID-13 (8)	IE-8 (6)	IF-3 (83)	IG-11 (10)	IH-12 (4)
Buick 115....D.-R. (1927)	IA-8 (41)	IB-10 (106)	IC-14 (6)	ID-13 (8)	IE-8 (6)	IF-3 (83)	IG-11 (10)	IH-12 (4)
Buick 120, 128....D.-R. (1927)	IA-8 (41)	IB-10 (106)	IC-14 (6)	ID-13 (8)	IE-8 (6)	IF-3 (83)	IG-11 (10)	IH-12 (4)
Buick 115....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-15 (2)	ID-10 (35)	IE-8 (6)	IF-3 (83)	IG-12 (23)	IH-13 (6)
Buick 120, 128....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-15 (2)	ID-10 (35)	IE-8 (6)	IF-3 (83)	IG-12 (23)	IH-13 (6)
Buick 116....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-6 (23)	IF-3 (83)	IG-12 (23)	IH-13 (6)
Buick 121, 129....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-6 (23)	IF-3 (83)	IG-12 (23)	IH-13 (6)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

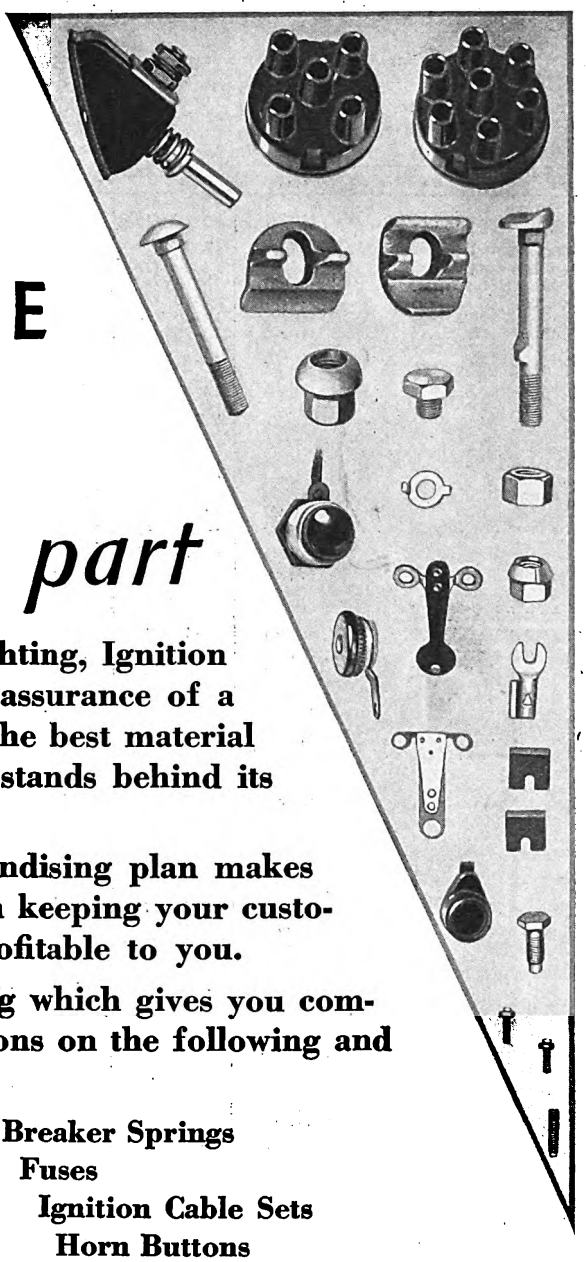
FOOTNOTE: *For corresponding numbers of Guaranteed Parts Co. see page 247.*

Digitized by Google

FOR IGNITION

AMO AUTOMOTIVE PRODUCTS

REPLACE



with an AMO *part*

THE AMO Trade-mark on Starting, Lighting, Ignition and Rim Replacement Parts is your assurance of a long-life part, made to fit correctly, of the best material and backed by an organization which stands behind its guarantee.

In addition, an unusual merchandising plan makes the AMO Line not only desirable in keeping your customers satisfied but exceedingly profitable to you.

Send for our 88 page catalog which gives you complete information and illustrations on the following and many other parts.

- Contact Points
- Distributor Heads
- Distributor Rotors
- Condensers
- Resistance Units
- Generator Cutouts
- Generator Brush Holders
- Spark Testers
- Starting Switches
- Scroo-Gripp Automatic Release Screw Driver
- Generator and Starter Brushes
- Breaker Springs
- Fuses
- Ignition Cable Sets
- Horn Buttons
- Starting Motor Housings
- Thickness Gauges
- Fibre Washers
- Metal Spacer Washers
- Ignition Wrenches
- Magneto Contacts
- Rim Bolts, Nuts, Clamps and Wedges

AUTOMOTIVE MANUFACTURERS INCORPORATED

569 BROADWAY
NEW YORK CITY

See Additional Advertisement on Page Opposite Inside Back Cover

Digitized by Google

IGNITION SYSTEM—Continued

Car Make and Model	Contact or Breaker Arm (See Footnote)	Contact Screw (See Footnote)	Distributor Cap (See Footnote)	Distributor Rotor (See Footnote)	Coil	Resistance Unit	Condenser	Distributor Shaft Gear or Coupling
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Buick Series 40.....D.-R. (1930)	IA-4 (184)	IB-8 (2)	IC-16 (14)	ID-10 (35)	IE-6 (23)	None	IG-12 (23)	IH-13 (6)
Buick-Series 50 & 60....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-16 (14)	ID-10 (35)	IE-6 (23)	None	IG-56 (1)	IH-13 (6)
Cadillac V-63.....D. (1925)	*IA-9 (14)	*IB-10 (106)	IC-17 (7)	ID-14 (15)	IE-9 (1)	IF-6 (1)	IG-10 (39)	IH-14 (2)
Cadillac 314.....D. (1926)	*IA-10 (28)	*IB-10 (106)	IC-17 (7)	ID-14 (15)	IE-10 (19)	IF-3 (83)	IG-10 (39)	IH-14 (2)
Cadillac 314.....D.-R. (1927)	*IA-10 (28)	*IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-11 (15)	IF-3 (83)	IG-10 (39)	IH-15 (8)
Cadillac 341A.....D.-R. (1928)	*IA-10 (28)	*IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-11 (15)	IF-3 (83)	IG-10 (39)	IH-15 (8)
Cadillac 341B.....D.-R. (1929)	*IA-10 (28)	*IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-11 (15)	IF-3 (83)	IG-10 (39)	IH-15 (8)
Cadillac 353.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-96 (1)	ID-15 (23)	IE-90 (2)	None	IG-57 (2)	IH-15 (8)
Cadillac 452.....D.-R. (1930)	*IA-4 (184)	IB-33 U. (13) / IB-34 L. (1)	IC-97 (1)	ID-83 (1)	*IE-91 (1)	None	IG-58 (1)	IH-137 (1)
Case, JIC.....D.-R. (1925)	IA-8 (41)	IB-10 (106)	IC-19 (6)	ID-16 (15)	IE-12 (14)	IF-3 (83)	IG-9 (16)	IH-16 (3)
Case X.....D.-R. (1925)	IA-8 (41)	IB-10 (106)	IC-19 (6)	ID-16 (15)	IE-12 (14)	IF-3 (83)	IG-9 (16)	IH-16 (3)
Case Y.....D.-R. (1925)	IA-11 (21)	IB-10 (106)	IC-19 (6)	ID-16 (15)	IE-2 (35)	IF-3 (83)	IG-9 (16)	IH-17 (2)
Case JIC.....D.-R. (1926-27)	IA-8 (41)	IB-10 (106)	IC-19 (6)	ID-16 (15)	IE-12 (14)	IF-3 (83)	IG-9 (16)	IH-16 (3)
Case Y.....D.-R. (1926-27)	IA-11 (21)	IB-10 (106)	IC-19 (6)	ID-16 (15)	IE-2 (35)	IF-3 (83)	IG-9 (16)	IH-17 (2)
Chandler 33.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-2 (116)	IG-13 (17)	IH-18 (1)
Chandler 35.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-2 (116)	IG-13 (17)	IH-19 (3)
Chandler Big 6.....D.-R. (1927)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-4 (44)	IF-2 (116)	IG-6 (27)	IH-19 (3)
Chandler Royal 8.....R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	IF-2 (116)	IG-7 (70)	IH-20 (16)
Chandler Spec. 6.....D.-R. (1927)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-4 (44)	IF-2 (116)	IG-6 (27)	IH-21 (3)
Chandler Std. 6.....D.-R. (1927)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-4 (44)	IF-2 (116)	IG-6 (27)	IH-22 (3)
Chandler Big 6.....R. (1928)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE 4 (44)	IF-2 (116)	IG-7 (70)	IH-19 (3)
Chandler Royal 8.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	IF-2 (116)	IG-7 (70)	IH-20 (16)
Chandler Spec. 6.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-2 (116)	IG-14 (2)	IH-20 (16)
Chandler Spec. In. 6.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-3 (6)	IE-1 (48)	IF-2 (116)	IG-14 (2)	IH-20 (16)
Chevrolet K.....R. (1925)	IA-5 (8)	IB-5 (16)	IC-6 (6)	ID-6 (10)	IE-2 (35)	IF-2 (116)	None	IH-23 (2)
Chevrolet V.....R. (1926)	IA-5 (8)	IB-5 (16)	IC-6 (6)	ID-6 (10)	IE-2 (35)	IF-2 (116)	None	IH-24 (4)
Chevrolet AA.....R. (1927)	IA-5 (8)	IB-5 (16)	IC-6 (6)	ID-6 (10)	IE-13 (2)	IF-2 (116)	None	IH-24 (4)
Chevrolet AB.....D.-R. (1928)	IA-4 (184)	IB-6 (43)	IC-24 (4)	ID-8 (44)	IE-13 (2)	IF-2 (116)	None	IH-24 (4)
Chevrolet AC.....R. (1929-30)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-14 (4)	IF-2 (116)	IG-16 (2)	IH-24 (4)
Chrysler 6B.....R. (1925)	IA-4 (184)	IB-4 (58)	IC-8 (26)	ID-7 (23)	IE-15 (15)	IF-2 (116)	IG-3 (26)	IH-25 (1)
Chrysler 58.....R. (Early 1926)	IA-4 (184)	IB-4 (58)	IC-25 (1)	ID-7 (23)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-26 (5)
Chrysler 70.....R. (1926)	IA-4 (184)	IB-4 (58)	IC-10 (18)	ID-7 (23)	IE-2 (35)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler 80.....R. (1926)	IA-4 (184)	IB-4 (58)	IC-10 (18)	ID-7 (23)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler 50.....R. (1927)	IA-6 (15)	IB-6 (43)	IC-24 (4)	ID-8 (44)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-26 (5)
Chrysler 60.....R. (1927)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler 70.....R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-7 (23)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler 80.....R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-10 (35)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-27 (11
Chrysler 52.....D.-R. (1928)	IA-4 (184)	IB-6 (43)	IC-24 (4)	ID-8 (44)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-26 (5)
Chrysler 62.....D.-R. (1928)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-15 (15)	IF-2 (116)	IG-4 (12)	IH-27 (11)
Chrysler 72.....D.-R. (1928)	IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-10 (35)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler Imp. 80.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-10 (35)	IE-16 (2)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler 65.....D.-R. (1929)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-15 (15)	IF-2 (116)	IG-4 (12)	IH-20 (16)
Chrysler 75.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-10 (35)	IE-15 (15)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler Imp. 80.....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-10 (35)	IE-16 (2)	IF-2 (116)	IG-6 (27)	IH-27 (11)
Chrysler 66.....D.-R. (1930)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-92 (2)	None	IG-7 (70)	IH-20 (16)
Chrysler 70.....D.-R. (1930)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-92 (2)	None	IG-7 (70)	IH-20 (16)
Chrysler 77.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-10 (35)	IE-93 (1)	None	IG-6 (27)	IH-27 (11)
Cleveland 31.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-4 (44)	IF-2 (116)	IG-13 (17)	IH-21 (3)
Cleveland 43.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-2 (116)	IG-13 (17)	IH-22 (3)
Cleveland 31.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-4 (44)	IF-2 (116)	IG-13 (17)	IH-21 (3)
Cleveland 43.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-2 (116)	IG-13 (17)	IH-22 (3)
Cole Master.....R. (1925)	IA-9 (14)	IB-10 (106)	IC-17 (7)	ID-14 (15)	IE-17 (6)	IF-9 (1)	IG-17 (7)	IH-30 (1)
Cord.....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-94 (1)	None	IG-7 (70)	IH-8 (76)
Cunningham V 6.....R. (1925)	IA-9 (14)	IB-10 (106)	IC-17 (7)	ID-14 (15)	IE-18 (2)	IF-3 (83)	IG-17 (7)	IH-31 (2)
Cunningham V 6.....R. (1926)	IA-9 (14)	IB-10 (106)	IC-17 (7)	ID-14 (15)	IE-18 (2)	IF-3 (83)	IG-17 (7)	IH-31 (2)
Cunningham V 7.....D.-R. (1927)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-19 (3)	IF-3 (83)	IG-10 (39)	IH-32 (3)
Cunningham V 7.....D.-R. (1928)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-19 (3)	IF-3 (83)	IG-10 (39)	IH-32 (3)
Cunningham V 8.....D.-R. (1929)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-19 (3)	IF-3 (83)	IG-10 (39)	IH-32 (3)
Daniels.....D. (1925)	IA-7 (1)	IB-9 (1)	IC-19 (6)	ID-16 (15)	IE-17 (6)	None	IG-17 (7)	IH-29 (1)
Davis 90.....D. (1925-26)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-33 (18)
Davis 91.....D. (1925-26)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-33 (18)
Davis 92.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-33 (18)
Davis 93.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-33 (18)
Davis 92.....D. (1927)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-33 (18)
Davis 94.....D.-R. (1927)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-6 (27)	IH-34 (1)
Davis 98.....D.-R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-3 (27)	IF-8 (2)	IG-7 (70)	IH-20 (16)
Davis 99.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IF-3 (27)	IF-8 (2)	IG-7 (70)	IH-20 (16)
De Soto.....D.-R. (1928-29)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-15 (15)	IF-2 (116)	IG-4 (12)	IH-20 (16)
De Soto.....N.-E. (1929-30)	IA-14 (15)	IB-14 (16)	IC-28 (2)	ID-20 (1)	IE-86 (5)	IF-2 (116)	IG-55 (4)	IH-20 (16)
De Soto.....D.-R. (1930)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-98 (3)	ID-80 (4)	IE-106 (2)	IF-2 (116)	IG-7 (70)	IH-69 (9)
Diana Str. 8.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-18 (20)	ID-14 (15)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-33 (18)
Diana Str. 8.....D. (1927)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-33 (18)
Diana Str. 8.....D. (1928)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-14 (15)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-33 (18)
Dodge Brothers 4.....N.-E. (1925)	IA-15 (3)	IB-15 (9)	IC-29 (1)	ID-21 (3)	IE-21 (1)	None	IG-20 (1)	IH-35 (3)
Dodge Brothers 4.....N.-E. (1926)	IA-16 (7)	IB-15 (9)	IC-30 (2)	ID-22 (7)	IE-22 (4)	None	IG-21 (12)	IH-35 (3)
Dodge Brothers 4.....N.-E. (1927-28)	IA-16 (7)	IB-15 (9)	IC-30 (2)	ID-22 (7)	IE-22 (4)	None	IG-21 (12)	IH-35 (3)
Dodge Brothers Senior...N.-E. (1928)	IA-16 (7)	IB-15 (9)	IC-31 (4)	ID-22 (7)	IE-23 (4)	None	IG-21 (12)	IH-36 (1)
Dodge Brothers Std. 6....N.-E. (1928)	IA-14 (15)	IB-14 (16)	IC-32 (8)	ID-22 (7)	IE-23 (4)	None	IG-19 (7)	IH-37 (5)
Dodge Bros. Victory 6...N.-E. (1928-29)	IA-14 (15)	IB-14 (16)	IC-32 (8)	ID-23 (7)	IE-23 (4)	None	IG-19 (7)	IH-37 (5)
Dodge Brothers Senior...N.-E. (1929-30)	IA-16 (7)	IB-14 (16)	IC-32 (8)	ID-23 (7)	IE-23 (4)	None	IG-21 (12)	IH-37 (5)
Dodge Brothers DA 6...N.-E. (1929-30)	IA-14 (15)	IB-14 (16)	IC-32 (8)	ID-23 (7)	IE-24 (1)	None	IG-55 (4)	IH-37 (5)
Dodge Brothers 8 cyl.....D.-R. (1930)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-98 (3)	ID-80 (4)	IE-106 (2)	None	IG-7 (70)	IH-69 (9)
Dodge Brothers DD.....N.-E. (1930)	IA-14 (15)	IB-14 (16)	IC-28 (2)	ID-81 (1)	IE-107 (1)	None	IG-55 (4)	IH-37 (5)
Dorris, B.....(1925)	IA-17 (1)	IB-16 (1)	IC-33 (1)	ID-24 (1)	IE-25 (1)	IF-18 (1)	IG-22 (3)	IH-38 (1)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

FOOTNOTE: *For corresponding numbers of Guaranteed Parts Co. see page 247.*

Digitized by Google

IGNITION SYSTEM—Continued

Car Make and Model	Contact or Breaker Arm (See Footnote)	Contact Screw (See Footnote)	Distributor Cap (See Footnote)	Distributor Rotor (See Footnote)	Coil	Resistance Unit	Condenser	Distributor Shaft Gear or Coupling
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Duesenberg Str. 8.....D. (1925)	IA-9 (14)	IB-10 (106)	IC-17 (7)	ID-14 (15)	IE-26 (2)	IF-19 (2)	IG-17 (7)	IH-39 (2)
Duesenberg Str. 8.....D. (1926)	IA-9 (14)	IB-10 (106)	IC-17 (7)	ID-14 (15)	IE-26 (2)	IF-19 (2)	IG-17 (7)	IH-39 (2)
Duesenberg Str. 8.....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-34 (1)	ID-25 (1)	IE-27 (1)	IF-82 (1)	IG-10 (59)	IH-40 (1)
duPont D.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	None	IG-13 (17)	IH-41 (5)
duPont D.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	None	IG-13 (17)	IH-41 (5)
duPont E.....D.-R. (1927)	IA-10 (28)	IB-10 (106)	IC-3 (2)	ID-15 (23)	IE-3 (27)	IF-21 (3)	IG-10 (59)	IH-41 (5)
duPont E, F.....D.-R. (1928)	IA-10 (28)	IB-10 (106)	IC-3 (2)	ID-15 (23)	IE-3 (27)	IF-21 (3)	IG-10 (59)	IH-41 (5)
duPont E.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-26 ( )	IE-3 (27)	IF-21 (3)	IG-10 (59)	IH-41 (5)
duPont G.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-26 (2)	IE-4 (44)	IF-22 (1)	IG-16 (2)	IH-42 (1)
Durant A-22.....A.-L. (1925)	IA-18 (1)	IB-1 (74)	IC-36 (5)	ID-27 (33)	IE-28 (1)	IF-1 (115)	IG-24 (33)	IH-23 (2)
Durant D-55.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-25 (2)	IH-43 (10)
Durant 4.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-21 (8)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-25 (2)	IH-44 (11)
Durant D-65.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Durant 75.....A.-L. (1928-29)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Durant 4-40.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-21 (8)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-44 (11)
Durant 6-60.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Durant 66.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Durant 70.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-44 (11)
Durant 63.....A.-L. (1929-30)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Durant 614.....A.-L. (1930)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-95 (1)	IF-1 (115)	IG-26 (21)	IH-129 (3)
Durant 617.....A.-L. (1930)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	None	IG-26 (21)	IH-130 (1)
Elcar 440.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-23 (4)	ID-6 (10)	IE-32 (9)	IF-2 (116)	IG-1 (51)	IH-8 (76)
Elcar 6-50.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-37 (7)	ID-27 (33)	IE-32 (9)	IF-1 (115)	IG-24 (33)	IH-8 (76)
Elcar 6-60.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-26 (1)	ID-29 (1)	IE-20 (24)	IF-1 (115)	IG-1 (51)	IH-8 (76)
Elcar 8-80.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-39 (9)	ID-30 (1)	IE-10 (19)	IF-3 (85)	IG-10 (59)	IH-8 (76)
Elcar 6-65.....R. (1926)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-8 (76)
Elcar 8-81.....D. (1926)	IA-10 (28)	IB-10 (106)	IC-40 (1)	ID-31 (1)	IE-20 (24)	IF-3 (85)	IG-10 (59)	IH-8 (76)
Elcar 4-55.....R. (1926-27)	IA-5 (8)	IB-5 (16)	IC-23 (4)	ID-6 (10)	IE-2 (35)	IF-2 (116)	None	IH-8 (76)
Elcar 6-70.....D.-R. (1927)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-4 (44)	IF-2 (116)	IG-3 (26)	IH-8 (76)
Elcar 8-82.....D.-R. (1927)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	IF-25 (7)	IG-7 (70)	IH-8 (76)
Elcar 8-90.....D.-R. (1927)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-7 (70)	IH-8 (76)
Elcar 8-91.....D.-R. (1928)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-7 (70)	IH-8 (76)
Elcar 8-120.....D.-R. (1928)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	IF-25 (7)	IG-7 (70)	IH-8 (76)
Elcar 6-70.....D.-R. (1928-29)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-4 (44)	IF-2 (116)	IG-3 (26)	IH-8 (76)
Elcar 8-78.....D.-R. (1928-29)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	IF-25 (7)	IG-7 (70)	IH-8 (76)
Elcar 8-82.....D.-R. (1928-29)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	IF-25 (7)	IG-7 (70)	IH-8 (76)
Elcar 120.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	IF-25 (7)	IG-7 (70)	IH-8 (76)
Elcar 75.....D.-R. (1929-30)	IA-4 (184)	IB-6 (45)	IC-9 (30)	ID-8 (44)	IE-6 (23)	IF-2 (116)	IG-4 (12)	IH-8 (76)
Elcar 95, 96.....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	‡IE-4 (44)	IF-25 (7)	IG-4 (12)	IH-8 (76)
Elcar 130.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-75 (2)	ID-60 (2)	IE-69 (2)	IF-25 (7)	IG-35 (12)	IH-8 (76)
Erskine 50.....D.-R. (1927)	IA-6 (16)	IB-6 (45)	IC-9 (30)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-6 (27)	IH-45 (3)
Erskine 6-51.....D.-R. (1928)	IA-4 (184)	IB-4 (38)	IC-9 (30)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-7 (70)	IH-45 (3)
Erskine 52.....D.-R. (1929)	IA-4 (184)	IB-6 (45)	IC-9 (30)	ID-8 (44)	IE-30 (1)	IF-2 (116)	IG-7 (70)	IH-45 (3)
Erskine 53.....D.-R. (1930)	IA-4 (184)	IB-6 (45)	IC-9 (30)	ID-8 (44)	IE-96 (1)	None	IG-7 (70)	IH-110 (3)
Essex 6.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-1 (115)	IG-13 (17)	IH-46 (4)
Essex 6.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-1 (115)	IG-31 (7)	IH-46 (4)
Essex Super 6.....A.-L. (1927)	IA-12 (21)	IB-11 (24)	IC-38 (2)	ID-32 (2)	IE-31 (7)	IF-1 (115)	IG-31 (7)	IH-47 (2)
Essex Super 6.....A.-L. (1928)	IA-13 (43)	IB-11 (24)	IC-38 (2)	ID-32 (2)	IE-31 (7)	IF-1 (115)	IG-31 (7)	IH-47 (2)
Essex Challenger.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-23 (9)	IH-48 (1)
Essex E.....A.-L. (1930)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-97 (1)	None	IG-59 (1)	IH-131 (1)
Falcon Knight 10.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-49 (2)
Falcon Knight 12.....A.-L. (1928-29)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-49 (2)
Flint B-40.....A.-L. (1925-26)	IA-1 (60)	IB-1 (74)	IC-37 (7)	ID-27 (33)	IE-32 (9)	IF-1 (115)	IG-24 (33)	IH-44 (11)
Flint E-55.....DeJ. (1925-26)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-33 (1)	IF-1 (115)	IG-24 (33)	IH-44 (11)
Flint B-60.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-37 (7)	ID-27 (33)	IE-34 (5)	IF-1 (115)	IG-1 (51)	IH-44 (11)
Flint E-80.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-35 (6)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Flint Jr.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-32 (9)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Flint Jr.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-32 (9)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Flint 60.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-37 (7)	ID-1 (40)	IE-34 (5)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Flint 80.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-35 (6)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Ford T.....(1925)	IA-23 (3)	IB-20 (3)	IC-42 (3)	ID-33 (3)	IE-36 (3)	None	None	None
Ford T.....(1926)	IA-23 (3)	IB-20 (3)	IC-42 (3)	ID-33 (3)	IE-36 (3)	None	None	None
Ford T.....(1927)	IA-23 (3)	IB-20 (3)	IC-42 (3)	ID-33 (3)	IE-36 (3)	None	None	None
Ford A.....(1928)	IA-24 (2)	IB-21 (2)	IC-43 (2)	ID-34 (2)	IE-37 (2)	IF-28 (2)	IG-33 (2)	IH-51 (2)
Ford A.....(1929)	IA-24 (2)	IB-21 (2)	IC-43 (2)	ID-34 (2)	IE-37 (2)	IF-28 (2)	IG-33 (2)	IH-51 (2)
Franklin Series 11.....A.-K. (1925)	IA-25 (3)	IB-22 (3)	IC-44 (3)	ID-35 (3)	IE-38 (3)	None	IG-34 (3)	IH-52 (3)
Franklin Series 11.....A.-K. (1926)	IA-25 (3)	IB-22 (3)	IC-44 (3)	ID-35 (3)	IE-38 (3)	None	IG-34 (3)	IH-52 (3)
Franklin Series 11.....A.-K. (1927)	IA-25 (3)	IB-22 (3)	IC-44 (3)	ID-35 (3)	IE-38 (3)	None	IG-34 (3)	IH-52 (3)
Franklin Series 12.....N.-E. (1928)	IA-16 (7)	IB-15 (9)	IC-31 (4)	ID-22 (7)	IE-39 (1)	None	IG-21 (12)	IH-53 (1)
Franklin 130.....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-40 (3)	None	IG-12 (23)	IH-54 (3)
Franklin 135, 137.....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-40 (3)	None	IG-12 (23)	IH-54 (3)
Franklin 145, 147.....D.-R. (1930)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-40 (3)	None	IG-12 (23)	IH-54 (3)
Gardner 6A.....R. (1925)	IA-4 (184)	IB-4 (38)	IC-4 (11)	ID-4 (9)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-8 (76)
Gardner 8A.....R. (1925)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (35)	IF-1 (115)	None	IH-8 (76)
Gardner Series 5.....R. (1925)	IA-4 (184)	IB-4 (38)	IC-48 (1)	ID-28 (1)	IE-2 (35)	IF-2 (116)	IG-32 (1)	IH-8 (76)
Gardner 6A.....R. (1926)	IA-4 (184)	IB-4 (38)	IC-4 (11)	ID-4 (9)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-8 (76)
Gardner 8A.....R. (1926)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (35)	IF-2 (116)	None	IH-8 (76)
Gardner 80.....D.-R. (1927)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-41 (5)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Gardner 90.....D.-R. (1927)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-41 (5)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Gardner 75.....D.-R. (1928)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-41 (5)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Gardner 85.....D.-R. (1928)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-41 (5)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Gardner 95.....D.-R. (1928)	IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-41 (5)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Gardner 120.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-42 (3)	IF-2 (116)	IG-7 (70)	IH-8 (76)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

FOOTNOTE: *For corresponding numbers of Guaranteed Parts Co. see page 247.*

Digitized by Google

"Where can I get it *quick?*"

Here's the Answer --

When the job's tied up waiting for ignition parts, there's one sure way to avoid unnecessary delay. Go straight to the GUARANTEED jobber. He carries *every* part you need—for GUARANTEED is the ignition line complete.

To guard against future tie-ups, buy GUARANTEED Merchandisers —quick-turnover assortments of all the S.L.I. items you use every day. You'll save time—you'll gain a larger profit.

You can bank on GUARANTEED quality—"repair parts of repute" for 20 years. Genuine tungsten—Bakelite—the best of materials and workmanship—and accurate fit. Write us for the new GUARANTEED Parts Guide.

Guaranteed Parts Co., Inc.
250 West 54th Street
New York

GUARANTEED IGNITION SERVICE PARTS

GUARANTEED PARTS CO. INC.

Digitized by Google

--And Here's How!

COMPARATIVE CODE OF CHILTON AND GUARANTEED NUMBERS

CHILTON NUMBER	G. P. NUMBER	TIMES LISTED
IA-1	AL-7	60
IA-4	DR-4	184
IA-5	RI-31	8
IA-6	RI-58	15
IA-8	DI-40	41
IA-9	DI-15	14
IA-10	DI-21	28
IA-11	DI-20	21
IA-12	AL-22	21
IA-13	AL-36	43
IA-14	NE-27	15
IA-15	NE-3	3
IA-16	NE-18	7
IA-18	LA-17	1
IA-22	DJ-2	13
IA-23	FV-1	3
IA-24	FR-6	2
IA-25	AI-23	3
IA-26	AL-7 brass	1
IA-27	WW-10	1
IA-28	AI-21	3
IA-29	RI-40	8
IA-32	DJ-9	10
IA-41	AL-36	3
IB-1	AL-8	74
IB-4	RI-43	38
IB-5	RI-41	16
IB-6	RI-57	43
IB-7U	RI-79	73
IB-8	DR-5	29
IB-10	DI-13	106
IB-11	BI-12	24
IB-12	AL-23	58
IB-14	NE-28	16
IB-15	NE-4	9
IB-20	FV-3	3
IB-21	FR-7	2
IB-22	AI-25	3
IB-23	WW-12	1
IB-24	AI-22	3
IB-31L	RI-80	63
IB-32L	RI-78	22
IB-33U	RI-81	13
IC-1	AL-16	50
IC-4	RI-5	11
IC-5	DR-6	62
IC-6	RI-4	6
IC-8	RI-12	26
IC-9	RI-47	39
IC-10	RI-73	18
IC-11	DR-20	6
IC-14	DI-71B	6
IC-15	DR-1	2
IC-16	DR-15	14
IC-17	DI-75	7
IC-18	DI-76	20
IC-19	DI-71	6
IC-20	AL-34	24
IC-21	AL-30	8
IC-22	BI-6	15
IC-23	AL-15	4
IC-24	RI-76	4
IC-25	RI-77	1
IC-27	DI-12	18
IC-28	NE-33	2
IC-29	NE-2	1
IC-30	NE-13	2
IC-31	NE-23	4
IC-32	NE-25	8
IC-36	AL-4	5
IC-37	AL-6	7
IC-38	AL-27	2
IC-43	FR-9	2
IC-45	NE-34	1
IC-46	DR-18	6
IC-52	AI-9	3
IC-55	AL-41	6
IC-59	DR-11	4
IC-61	AL-41	6
IC-65	DI-71	11
IC-68	DI-72	2
IC-69	AL-42	3
IC-73	NE-32	5
IC-79	NE-24	2
IC-86	DJ-1	3
IC-88	RI-9	3
IC-98	DR-31	3
IC-99	DR-32	1
IC-100	AL-49	1
ID-1	AL-12	40
ID-4	RI-33	9
ID-5	RI-75	42
ID-6	RI-20	10
ID-7	RI-44	23
ID-8	RI-46	44
ID-9	DR-7	22
ID-10	DR-2	35
ID-12	DR-24	1
ID-13	DI-41	8
ID-14	DI-74	15
ID-15	DI-22	23
ID-16	DI-25	15
ID-17	BI-14	15
ID-18	AL-10	29
ID-19	DI-47	18
ID-20	NE-36	1
ID-21	NE-9	3
ID-22	NE-5	7
ID-23	NE-26	7
ID-27	AL-29	33
ID-32	AL-26	2
ID-33	BI-35	3
ID-34	FR-4	2
ID-35	AI-14	3
ID-37	NE-35	7
ID-40	AI-17	3
ID-42	BI-17	5
ID-43	AL-44	1
ID-47	DR-26	4
ID-51	AL-45	4
ID-56	AL-47	3
ID-63	DR-22	2
ID-71	RI-34	2
ID-72	RI-29	2
ID-77	WI-7	2
ID-80	DR-33	4
ID-81	NE-37	1
ID-82	AL-64	1

Thrifty Way to Buy Small Hardware!

Why buy small hardware from "broken packages," and lose money through mistakes in counting pieces and in figuring discounts? You will save money by asking for "Thrift-Paks."

"Thrift-Paks" are small, uniform packs of hardware items. Every pack sells for the one, low price. You are sure of the correct factory count, and of the same low price for all "Thrift-Paks."

You will have an economical stock system by buying "Thrift-Paks" in tray merchandisers and cabinets. Ask for the "Thrift-Pak" catalog.

GUARANTEED THRIFT-PAKS

Digitized by Google

IGNITION SYSTEM—Continued

Car Make and Model	Contact or Breaker Arm (See Footnote)	Contact Screw (See Footnote)	Distributor Cap (See Footnote)	Distributor Rotor (See Footnote)	Coil	Resistance Unit	Condenser	Distributor Shaft Gear or Coupling
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Gardner 125.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-42 (3)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Gardner 130.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-42 (3)	IF-2 (116)	IG-7 (70)	IH-8 (76)
Gardner 136.....D.-R. (1929-30)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (35)	IE-86 (5)	None	IG-12 (23)	IH-8 (76)
Gardner 140.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-86 (5)	None	IG-7 (70)	IH-8 (76)
Gardner 150.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-86 (5)	None	IG-7 (70)	IH-8 (76)
Graham Paige 610.....N.-E. (1928-29)	IA-14 (15)	IB-14 (16)	IC-32 (8)	ID-23 (7)	IE-43 (1)	None	IG-19 (7)	IH-55 (10)
Graham Paige 614.....N.-E. (1928-29)	IA-14 (15)	IB-14 (16)	IC-32 (8)	ID-23 (7)	IE-44 (5)	None	IG-19 (7)	IH-56 (5)
Graham Paige 619.....N.-E. (1928-29)	IA-14 (15)	IB-14 (16)	IC-32 (8)	ID-23 (7)	IE-44 (5)	None	IG-19 (7)	IH-56 (5)
Graham Paige 629.....N.-E. (1928-29)	IA-14 (15)	IB-14 (16)	IC-32 (8)	ID-23 (7)	IE-44 (5)	None	IG-19 (7)	IH-56 (5)
Graham Paige 835.....N.-E. (1928-29)	IA-14 (15)	IB-14 (16)	IC-45 (1)	ID-37 (7)	IE-45 (1)	None	IG-19 (7)	IH-55 (10)
Graham Paige 612.....D.-R. (1929)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-6 (23)	IF-35 (2)	IG-7 (70)	IH-55 (10)
Graham Paige 615.....D.-R. (1929)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-6 (23)	IF-35 (2)	IG-8 (7)	IH-55 (10)
Graham Paige 621.....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-6 (23)	IF-34 (1)	IG-8 (7)	IH-55 (10)
Graham Paige 827.....D.-R. (1929)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-46 (6)	ID-37 (7)	IE-6 (23)	IF-33 (2)	IG-35 (12)	IH-55 (10)
Graham Paige 837.....D.-R. (1929)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-46 (6)	ID-37 (7)	IE-6 (23)	IF-33 (2)	IG-35 (12)	IH-55 (10)
Graham Std. Six.....D.-R. (1930)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-6 (23)	None	IG-7 (70)	IH-55 (10
Graham Spec. Six.....D.-R. (1930)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (35)	IE-6 (23)	None	IG-8 (7)	IH-55 (10)
Graham Custom Six.....D.-R. (1930)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (35)	IE-6 (23)	None	IG-8 (7)	IH-55 (10)
Graham Std. & Spec. 8...D.-R. (1930)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-98 (3)	ID-80 (4)	IE-6 (23)	None	IG-7 (70)	IH-132 (1)
Graham Custom 8.....D.-R. (1930)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-46 (6)	ID-37 (7)	IE-6 (23)	None	IG-35 (12)	IH-133 (1)
Gray.....A.-L. (1925)	IA-2 (2)	IB-2 (2)	IC-23 (4)	ID-1 (40)	IE-32 (9)	IF-1 (115)	IG-1 (61)	IH-57 (2)
Gray.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-23 (4)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (61)	IH-57 (2)
Haynes 60.....R. (1925)	IA-4 (184)	IB-4 (38)	IC-4 (11)	ID-4 (9)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-58 (1)
Hudson Super 6.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-36 (2)	IG-13 (17)	IH-46 (4)
Hudson Super 6.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	IF-36 (2)	IG-13 (17)	IH-46 (4)
Hudson Super 6.....A.-L. (1927)	IA-1 (60)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-31 (7)	IF-1 (115)	IG-13 (17)	IH-60 (4)
Hudson Super 6O.....A.-L. (1928)	IA-1 (60)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-31 (7)	IF-1 (115)	IG-1 (61)	IH-60 (4)
Hudson Super 6S.....A.-L. (1928)	IA-1 (60)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-31 (7)	IF-1 (115)	IG-1 (61)	IH-60 (4)
Hudson Greater.....A.-L. (1929)	IA-26 (1)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (61)	IH-60 (4)
Hudson T, U.....A.-L. (1930)	*IA-41 (5)	*IB-12 (58)	IC-55 (6)	ID-3 (6)	IE-98 (1)	IF-83 (1)	IG-60 (3)	IH-134 (1)
Hupmobile E1.....D. (1925)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-14 (15)	IE-10 (19)	IF-3 (83)	IG-10 (39)	IH-61 (7)
Hupmobile R.....A.-L. (1925)	IA-27 (1)	IB-23 (1)	IC-50 (1)	ID-38 (1)	IE-46 (6)	None	IG-29 (1)	IH-62 (1)
Hupmobile E2.....D. (1926-27)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-10 (19)	IF-3 (83)	IG-10 (39)	IH-61 (7)
Hupmobile A1.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (61)	IH-63 (3)
Hupmobile A2.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (61)	IH-63 (3)
Hupmobile E3.....D.-R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-18 (20)	ID-15 (23)	IE-11 (15)	IF-3 (83)	IG-10 (39)	IH-61 (7)
Hupmobile Cent. 6.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-28 (8)	IH-63 (3)
Hupmobile Cent. 8.....A.-L. (1928)	IA-10 (28)	IB-10 (106)	IC-5 (62)	ID-15 (23)	IE-1 (48)	None	IG-10 (39)	IH-61 (7)
Hupmobile 125.....A.-L. (1928)	IA-10 (28)	IB-10 (106)	IC-5 (62)	ID-15 (23)	IE-1 (48)	None	IG-10 (39)	IH-61 (7)
Hupmobile A6.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-28 (8)	IH-61 (7)
Hupmobile M8.....A.-L. (1928-29)	*IA-41 (5)	*IB-12 (58)	IC-55 (6)	ID-3 (6)	IE-1 (48)	None	IG-27 (2)	IH-61 (7)
Hupmobile H, U.....A.-L. (1930)	*IA-41 (5)	*IB-12 (58)	IC-55 (6)	ID-3 (6)	IE-31 (7)	IF-1 (115)	IG-27 (2)	IH-129 (3)
Jewett 6-50.....A.-K. (1925)	IA-28 (3)	IB-24 (3)	IC-52 (3)	ID-40 (3)	IE-46 (6)	None	IG-36 (1)	IH-64 (1)
Jewett 6-55.....D.-R. (1926)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-6 (27)	IH-65 (1)
Jordan K. L.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-53 (1)	ID-41 (1)	IE-47 (1)	IF-3 (83)	IG-9 (16)	IH-66 (1)
Jordan A.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-54 (5)	ID-42 (5)	IE-48 (5)	None	IG-13 (17)	IH-67 (4)
Jordan A.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-54 (5)	ID-42 (5)	IE-48 (5)	None	IG-13 (17)	IH-67 (4)
Jordan J.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-54 (5)	ID-42 (5)	IE-48 (5)	IF-1 (115)	IG-31 (7)	IH-67 (4)
Jordan AA.....B. (1927)	IA-12 (21)	IB-11 (24)	IC-54 (5)	ID-42 (5)	IE-48 (5)	None	IG-13 (17)	IH-67 (4)
Jordan J.....B. (1927)	IA-12 (21)	IB-11 (24)	IC-54 (5)	ID-42 (5)	IE-49 (3)	IF-1 (115)	IG-31 (7)	IH-68 (2)
Jordan R.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (61)	IH-69 (9)
Jordan JJ.....B. (1928)	IA-12 (21)	IB-11 (24)	IC-56 (1)	ID-44 (1)	IE-49 (3)	IF-1 (115)	IG-31 (7)	IH-69 (9)
Jordan JE.....A.-L. (1928-29)	IA-13 (43)	IB-12 (58)	IC-55 (6)	ID-43 (1)	IE-49 (3)	IF-1 (115)	IG-28 (8)	IH-68 (2)
Jordan E.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-1 (115)	IG-26 (21)	IH-69 (9)
Jordan G.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-57 (1)	ID-45 (1)	IE-50 (1)	IF-1 (115)	IG-37 (1)	IH-69 (9)
Kissel 6-55.....R. (1925)	IA-29 (8)	IB-5 (16)	IC-4 (11)	ID-4 (9)	IE-2 (35)	IF-2 (116)	IG-23 (9)	IH-70 (3)
Kissel 8-75.....R. (1925)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (35)	IF-2 (116)	None	IH-8 (76)
Kissel 6-55.....R. (1926)	IA-29 (8)	IB-5 (16)	IC-4 (11)	ID-4 (9)	IE-2 (35)	IF-2 (116)	IG-23 (9)	IH-70 (3)
Kissel 8-75.....R. (1926)	IA-4 (184)	IB-4 (38)	IC-5 (62)	ID-5 (42)	IE-2 (35)	IF-2 (116)	None	IH-8 (76)
Kissel 6-55.....R. (1927)	IA-29 (8)	IB-5 (16)	IC-4 (11)	ID-4 (9)	IE-2 (35)	IF-2 (116)	IG-23 (9)	IH-70 (3)
Kissel 8-65.....D.-R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	None	IG-7 (70)	IH-8 (76)
Kissel 8-75.....D.-R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	IF-43 (2)	IG-7 (70)	IH-8 (76)
Kissel 6-70.....D.-R. (1928)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-11 (15)	IF-2 (116)	IG-3 (26)	IH-8 (76)
Kissel 8-80.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	None	IG-7 (70)	IH-8 (76)
Kissel 8-80 S.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-4 (44)	None	IG-7 (70)	IH-8 (76)
Kissel 8-90.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-11 (15)	IF-43 (2)	IG-7 (70)	IH-8 (76)
Kissel 6-73.....D.-R. (1929-30)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-14 (4)	None	IG-12 (23)	IH-8 (76)
Kissel 8-95.....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-9 (22)	IE-14 (4)	None	IG-7 (70)	IH-8 (76)
Kissel 8-126.....D.-R. (1929-30)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-46 (6)	ID-37 (7)	IE-14 (4)	None	IG-35 (12)	IH-8 (76)
LaSalle 303.....D.-R. (1927)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-11 (15)	None	IG-10 (39)	IH-15 (8)
LaSalle 303.....D.-R. (1928)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-11 (15)	None	IG-10 (39)	IH-15 (8)
LaSalle 328.....D.-R. (1929)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-11 (15)	None	IG-10 (39)	IH-15 (8)
LaSalle 340.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-99 (1)	ID-15 (23)	IE-90 (2)	None	IG-57 (2)	IH-15 (8)
Lexington Concord.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-51 (3)	IF-3 (83)	IG-18 (17)	IH-71 (3)
Lexington M. M.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-51 (3)	IF-3 (83)	IG-18 (17)	IH-71 (3)
Lexington M. M. 6-50.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-51 (3)	IF-3 (83)	IG-18 (17)	IH-71 (3)
Lincoln 8.....D. (1925)	IA-11 (21)	IB-10 (106)	IC-58 (2)	ID-46 (2)	IE-20 (24)	IF-3 (83)	IG-38 (5)	IH-72 (6)
Lincoln 8.....D. (1926)	IA-11 (21)	IB-10 (106)	IC-58 (2)	ID-46 (2)	IE-52 (1)	IF-45 (1)	IG-38 (5)	IH-72 (6)
Lincoln 8.....D.-R. (1927)	IA-11 (21)	IB-10 (106)	IC-59 (4)	ID-47 (4)	IE-53 (1)	IF-46 (3)	IG-38 (5)	IH-72 (6)
Lincoln 8.....D.-R. (1928)	IA-11 (21)	IB-10 (106)	IC-59 (4)	ID-47 (4)	IE-11 (15)	IF-46 (3)	IG-31 (7)	IH-72 (6)
Lincoln 8.....D.-R. (1929)	IA-11 (21)	IB-10 (106)	IC-59 (4)	ID-47 (4)	*IE-11 (15)	IF-46 (3)	IG-38 (5)	IH-72 (6)
Lincoln 8.....D.-R. (1930)	*IA-11 (21)	*IB-10 (106)	IC-59 (4)	ID-47 (4)	*IE-11 (15)	None	IG-38 (5)	IH-72 (6)
Locomobile Jr. 6.....DeJ. (1925)	IA-30 (1)	IB-25 (1)	IC-60 (1)	ID-48 (1)	IE-54 (1)	IF-47 (1)	IG-39 (1)	IH-73 (1)
Locomobile Jr. 8.....DeJ. (1925)	IA-22 (13)	IB-1 (74)	IC-61 (6)	ID-49 (2)	IE-55 (2)	IF-1 (115)	IG-24 (33)	IH-74 (3)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

FOOTNOTE: *For corresponding numbers of Guaranteed Parts Co. see page 247.*

Digitized by Google

FULL SPEED AHEAD WITH K-E-M!

101 K-E-M ASSORTMENTS in neat "unit form" metal display containers and racks. Individual assortments covering the complete K-E-M line of automotive electrical necessities. Adjustable members to build up assortments to any size desired—will work in with your present steel shelving equipment.

K-E-M PRODUCTS

Contact Points
Distributor Heads & Rotors
Condensers
Coils—Cutouts
Motor & Generator Brushes
Starter Switches
Brush-Holders
Fuses
Ignition Cable Sets
Battery Cables
Terminals
Thickness Gauges
Speedometer Cables
Gas & Oil Line Fittings
Magneto, Generator & Water Pump Couplings
Oil Pump & Igniter Gears
Ball Joints
Starting Motor Drive Parts and
Many others

Examine K-E-M's straightforward statement of Merchandising Policy. To read it is to know that K-E-M has studied your problem from your angle—with a willingness to meet your conditions—and with the strength and experience to follow through a program that makes money for you.

K-E-M starts in where other manufacturers leave off. We don't stock you to the ceiling with merchandise that won't move. Instead it pays us to cooperate with you through our missionary men to build up your volume on our line. Right now we are fortunate enough to have a staff of experienced men ready to work for you and turn over dealers to you. They know the trade. They know the line. One of them is located in your territory and he's ready to work with you.

Every item and every assortment in the K-E-M line is a live number. The K-E-M obsolescence policy permits you to return any obsolete equipment and replace it with live products. We can't afford to leave you high and dry with shelf warmers.

K-E-M offers you a complete line of necessities in the starting, lighting and ignition field. Every item is backed by K-E-M service, quality and price. Your account is concentrated with one reliable, dependable source of supply that is interested in seeing that you move your goods and make a profit. K-E-M freight allowance policy puts money in your pocket. Ask us the saving in 100 lb. lots to your territory.

K-E-M prices are competitive with manufacturers' prices and "in line." In fact we have shown quite a number of our Jobbers a 20% saving on the complete K-E-M line. Ask for the K-E-M catalog.

SEND FOR THIS 84 PAGE CATALOG

K-E-M PRODUCTS Quality Counts

K - E - M

MANUFACTURING CO.

NEW YORK N. Y.

CABLE ADDRESS—KEMSALES, NEW YORK

Digitized by Google

IGNITION SYSTEM—Continued

Car Make and Model	Contact or Breaker Arm (See Footnote)	Contact Screw (See Footnote)	Distributor Cap (See Footnote)	Distributor Rotor (See Footnote)	Coil	Resistance Unit	Condenser	Distributor Shaft Gear or Coupling
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Locomobile 48.....D. (1925)	IA-9 (14)	IB-10 (106)	IC-62 (1)	ID-14 (15)	IE-56 (5)	IF-48 (5)	IG-40 (5)	IH-75 (5)
Locomobile 48.....D. (1926)	IA-9 (14)	IB-10 (106)	IC-63 (4)	ID-50 (4)	IE-56 (5)	IF-48 (5)	IG-40 (5)	IH-75 (5)
Locomobile 90.....DeJ. (1926)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-51 (4)	IE-59 (4)	IF-1 (115)	IG-24 (33)	IH-8 (76)
Locomobile, Jr. 8.....DeJ. (1926)	IA-22 (13)	IB-1 (74)	IC-61 (6)	ID-49 (2)	IE-55 (2)	IF-1 (115)	IG-24 (33)	IH-74 (3)
Locomobile 48.....D.-R. (1927)	IA-9 (14)	IB-10 (106)	IC-63 (4)	ID-50 (4)	IE-56 (5)	IF-48 (5)	IG-40 (5)	IH-75 (5)
Locomobile 8-66.....DeJ. (1927)	IA-31 (1)	IB-26 (1)	IC-64 (1)	ID-52 (1)	IE-57 (1)	IF-1 (115)	IG-24 (33)	IH-74 (3)
Locomobile 8-80.....DeJ. (1927)	IA-32 (10)	IB-12 (58)	IC-61 (6)	ID-53 (4)	IE-58 (4)	None	IG-41 (9)	IH-8 (76
Locomobile 90.....DeJ. (1927)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-51 (4)	IE-59 (4)	IF-1 (115)	IG-24 (33)	IH-8 (76)
Locomobile 48.....D.-R. (1928)	IA-9 (14)	IB-10 (106)	IC-63 (4)	ID-50 (4)	IE-56 (5)	IF-48 (5)	IG-40 (5)	IH-75 (5)
Locomobile 8-70.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-3 (27)	None	IG-7 (70)	IH-20 (16)
Locomobile 8-80.....DeJ. (1928)	IA-32 (10)	IB-12 (58)	IC-61 (6)	ID-53 (4)	IE-58 (4)	None	IG-41 (9)	IH-8 (76)
Locomobile 90.....DeJ. (1928)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-51 (4)	IE-59 (4)	IF-1 (115)	IG-24 (33)	IH-8 (76)
Locomobile 48.....D.-R. (1929)	IA-9 (14)	IB-10 (106)	IC-63 (4)	ID-50 (4)	IE-56 (5)	IF-48 (5)	IG-40 (5)	IH-75 (5)
Locomobile 8-80.....DeJ. (1929)	IA-32 (10)	IB-12 (58)	IC-61 (6)	ID-53 (4)	IE-58 (4)	None	IG-41 (9)	IH-8 (76)
Locomobile 86, 88.....DeJ. (1929)	IA-32 (10)	IB-12 (58)	IC-61 (6)	ID-53 (4)	IE-58 (4)	None	IG-41 (9)	IH-8 (76)
Locomobile 90.....DeJ. (1929)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-51 (4)	IE-59 (4)	IF-1 (115)	IG-24 (33)	IH-8 (76)
Marmon 74.....D. (1925)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-60 (3)	IF-3 (83)	IG-9 (16)	IH-76 (15)
Marmon 74.....D.-R. (1926)	IA-10 (28)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-20 (24)	IF-3 (83)	IG-9 (16)	IH-76 (15)
Marmon, Little.....D.-R. (1927)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-7 (70)	IH-76 (15)
Marmon E75.....D.-R. (1927-28)	IA-10 (28)	IB-10 (106)	IC-66 (2)	ID-54 (2)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-76 (15)
Marmon 68.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-7 (70)	IH-76 (15)
Marmon E75.....D.-R. (1928)	IA-10 (28)	IB-10 (106)	IC-66 (2)	ID-54 (2)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-76 (15)
Marmon 78.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-7 (70)	IH-76 (15)
Marmon 68.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-4 (12)	IH-76 (15)
Marmon 78.....D.-R. (1929)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-7 (70)	IH-76 (15)
Marmon Roosevelt.....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-79 (1)	None	IG-7 (70)	IH-76 (15)
Marmon 69.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-100 (3)	IF-84 (3)	IG-7 (70)	IH-76 (15)
Marmon 79.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-100 (3)	IF-84 (3)	IG-7 (70)	IH-76 (15)
Marmon Big 8.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-100 (3)	IF-84 (3)	IG-7 (70)	IH-76 (15)
Marquette, Series 30....D.-R. (1930)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-101 (1)	None	IG-7 (70)	IH-135 (1)
Maxwell.....R. (1925)	IA-5 (8)	IB-5 (16)	IC-6 (6)	ID-6 (10)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-26 (5)
Moon Series A.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-78 (4)
Moon Series A.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-78 (4)
Moon Series A.....D. (1927)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-7 (70)	IH-78 (4)
Moon 6-60.....D.-R. (1927)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-7 (70)	IH-79 (2)
Moon Series A.....D. (1928)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-7 (70)	IH-78 (4)
Moon 6-60.....D.-R. (1928)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-7 (70)	IH-79 (2)
Moon 6-72.....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (55)	IE-4 (44)	None	IG-12 (23)	IH-20 (16)
Moon 8-80.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-4 (44)	None	IG-7 (70)	IH-20 (16)
Moon 6-72.....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (55)	IE-4 (44)	None	IG-12 (23)	IH-20 (16)
Nash Adv. 6.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-68 (2)	ID-13 (8)	IE-20 (24)	IF-3 (83)	IG-11 (10)	IH-80 (9)
Nash Spec. 6.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	None	IG-18 (17)	IH-81 (4)
Nash Adv. 6.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-68 (2)	ID-13 (8)	IE-20 (24)	IF-3 (83)	IG-11 (10)	IH-80 (9)
Nash Spec. 10-L6.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	None	IG-18 (17)	IH-81 (4)
Nash Adv. 6.....D.-R. (1927)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-20 (24)	IF-3 (83)	IG-18 (17)	IH-81 (4)
Nash Spec. 10-L6.....D.-R. (1927)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	None	IG-18 (17)	IH-81 (4)
Nash Light 6.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-1 (4)
Nash Std. 6.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-1 (4)
Nash Adv. 6.....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (55)	IE-20 (24)	None	IG-12 (23)	IH-80 (9)
Nash Spec. 6.....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (55)	IE-4 (44)	None	IG-12 (23)	IH-80 (9)
Nash Std. 6.....A.-L. (1928-29)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-1 (4)
Nash Adv. 6.....A.-L. (1929)	*IA-13 (43)	*IB-12 (58)	IC-69 (3)	ID-56 (3)	IE-1 (48)	None	IG-28 (8)	IH-80 (9)
Nash Spec. 6.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-69 (3)	ID-56 (3)	*IE-1 (48)	None	IG-28 (8)	IH-80 (9)
Nash Single 6.....A.-L. (1929-30)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-80 (9)
Nash Twin Ign. 6.....A.-L. (1929-30)	*IA-13 (43)	*IB-12 (58)	IC-69 (3)	*ID-56 (3)	*IE-1 (48)	IF-1 (115)	IG-28 (8)	IH-80 (9)
Nash Twin Ign. 8.....A.-L. (1929-30)	IA-13 (43)	IB-12 (58)	IC-100 (1)	ID-82 (1)	*IE-102 (1)	IF-1 (115)	IG-28 (8)	IH-80 (9)
Oakland 6-54.....R. (1925)	IA-29 (8)	IB-5 (16)	IC-8 (26)	ID-7 (23)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-82 (3)
Oakland 6.....R. (1926)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-82 (3)
Oakland 6.....R. (1927)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-2 (35)	IF-2 (116)	IG-3 (26)	IH-83 (3)
Oakland AA6.....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (55)	IE-62 (3)	None	IG-12 (23)	IH-84 (2)
Oakland AA6.....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-8 (26)	ID-10 (55)	IE-4 (44)	None	IG-12 (23)	IH-84 (2)
Oakland 101.....D.-R. (1930)	*IA-4 (184)	IB-33 U. (13) / IB-32 L. (22)	IC-101 (1)	ID-80 (4)	IE-89 (2)	None	IG-61 (1)	IH-128 (1)
Oldsmobile 30.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-85 (1)
Oldsmobile 30.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-27 (18)	ID-19 (18)	IE-10 (19)	IF-3 (83)	IG-18 (17)	IH-86 (2)
Oldsmobile 30E.....D.-R. (1927)	IA-6 (16)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-63 (1)	IF-2 (116)	IG-18 (17)	IH-86 (2)
Oldsmobile F-28.....D.-R. (1928)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-64 (1)	IF-2 (116)	IG-7 (70)	IH-87 (2)
Oldsmobile F-29 (1929), F-30 (1930) D.-R.	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-65 (1)	IF-2 (116)	IG-7 (70)	IH-87 (2)
Overland 91.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-36 (5)	ID-27 (33)	IE-35 (6)	IF-1 (115)	IG-24 (33)	IH-88 (4)
Overland 93.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-37 (7)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-24 (33)	IH-88 (4)
Overland 91.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-36 (5)	ID-27 (33)	IE-35 (6)	IF-1 (115)	IG-24 (33)	IH-88 (4)
Overland 93.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-88 (4)
Packard 6 cyl., 326, 333.....D. (1925)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-17 (6)	IF-57 (9)	IG-9 (16)	IH-91 (14)
Packard 8 cyl., 236, 243.....D. (1925)	IA-9 (14)	IB-10 (106)	IC-71 (2)	ID-14 (15)	IE-17 (6)	IF-57 (9)	IG-9 (16)	IH-91 (14)
Packard 6 cyl., 326, 333.....D. (1926)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-17 (6)	IF-57 (9)	IG-9 (16)	IH-91 (14)
Packard 8 cyl., 236, 243.....D. (1926)	IA-9 (14)	IB-10 (106)	IC-71 (2)	ID-14 (15)	IE-17 (6)	IF-57 (9)	IG-9 (16)	IH-91 (14)
Packard 6 cyl., 426, 433..D.-R. (1927)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-11 (15)	IF-57 (9)	IG-10 (39)	IH-91 (14)
Packard 8 cyl., 336, 343..D.-R. (1927)	IA-9 (14)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-11 (15)	IF-57 (9)	IG-17 (7)	IH-91 (14)
Packard 6 cyl., 526.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-32 L. (22)	IC-10 (18)	ID-10 (55)	IE-11 (15)	None	IG-6 (27)	IH-91 (14)
Packard Std. 8, 443.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-18 (20)	ID-15 (23)	IE-66 (2)	None	IG-10 (39)	IH-91 (14)
Packard 6 cyl., 533.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-3 2L. (22)	IC-10 (18)	ID-10 (55)	IE-66 (2)	None	IG-6 (27)	IH-91 (14)
Packard 8 cyl., 626.....N.-E. (1929)	*IA-14 (15)	*IB-14 (16)	IC-73 (5)	ID-58 (5)	IE-67 (2)	None	IG-21 (12)	IH-91 (14)
Packard 8 cyl., 633.....N.-E. (1929)	*IA-14 (15)	*IB-14 (16)	IC-73 (5)	ID-58 (5)	IE-67 (2)	None	IG-21 (12)	IH-91 (14)
Packard 8 cyl., 640, 645..N.-E. (1929)	*IA-14 (15)	*IB-14 (16)	IC-73 (5)	ID-58 (5)	IE-68 (3)	None	IG-21 (12)	IH-91 (14)
Packard 726, 733.....N.-E. (1930)	*IA-14 (15)	*IB-14 (16)	IC-73 (5)	ID-58 (5)	IE-68 (3)	None	IG-21 (12)	IH-91 (14)
Packard 740, 745.....N.-E. (1930)	*IA-14 (15)	*IB-14 (16)	IC-73 (5)	ID-58 (5)	IE-68 (3)	None	IG-21 (12)	IH-91 (14)
Paige 6-70.....A.-K. (1925)	IA-28 (3)	IB-24 (3)	IC-52 (3)	ID-40 (3)	IE-46 (6)	None	IG-44 (2)	IH-92 (2)
Paige 6-70.....A.-K. (1926)	IA-28 (3)	IB-24 (3)	IC-52 (3)	ID-40 (3)	IE-46 (6)	None	IG-44 (2)	IH-92 (2)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

FOOTNOTE: *For corresponding numbers of Guaranteed Parts Co. see page 247.*

Digitized by Google

CONNECTICUT

T.M.REG.

synonymous with IGNITION

serving you and yours

The name CONNECTICUT on any *Ignition Replacement Part* is your assurance of reliability and performance—for CONNECTICUT parts are made to the most exacting specifications.

Behind the name CONNECTICUT stands a company of long established reputation; a company that pioneered and developed the first battery ignition sets for automobile and marine use; a company whose products, in the days before vast mergers, were standard equipment on thousands of cars.

With CONNECTICUT's record for achievement in the ignition field . . . with its background of experience and manufacturing facilities . . . with its reputation for quality products . . . certainly you may always specify CONNECTICUT *Ignition Replacement Parts* with full assurance of complete consumer satisfaction and with the knowledge that you are promoting your own interests as well.

The CONNECTICUT *Line of Ignition Replacement Parts* is 100% complete. A new catalog describing in detail the complete lines listed below will be gladly sent you on request.

Generator Cutouts	Brushes (Starter and Generator)	Ignition Cable Sets
Starter Switches	Ammeters	Oil Pump Gears
Condensers	Oil Gauges	Distribution Gears
Breaker Plates	Horn Buttons	Coils
Distributor Heads and Rotors	Low Voltage Switches	Thickness Gauges
Brush Holders	Terminals	Breaker Springs
Contact Arms		Ignition Wrenches

Also manufacturers of Oil Gauges, Ammeters, and Heat Indicators for Model "A" Fords; as well as Cowl and Fender Lamps, Interior Visors and quality accessories for all cars

CONNECTICUT TELEPHONE & ELECTRIC CORPORATION

37 Britannia Street *(Division of Commercial Instrument Corporation)* **Meriden, Conn.**

Digitized by Google

IGNITION SYSTEM—Continued

Car Make and Model	Contact or Breaker Arm (See Footnote)	Contact Screw (See Footnote)	Distributor Cap (See Footnote)	Distributor Rotor (See Footnote)	Coil	Resistance Unit	Condenser	Distributor Shaft Gear or Coupling
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Paige 6-45.....D.-R. (1927-28)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-6 (27)	IH-20 (16)
Paige 6-65.....D.-R. (1927-28)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-46 (6)	None	IG-6 (27)	IH-93 (2)
Paige 6-75.....D.-R. (1927-28)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-46 (6)	None	IG-6 (27)	IH-93 (2)
Paige 8-85.....D.-R. (1927-28)	*IA-4 (184)	IB-7 U. (73) IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-3 (27)	None	IG-7 (70)	IH-90 (1)
Peerless 70.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-74 (2)	ID-59 (2)	IE-20 (24)	IF-3 (83)	IG-11 (10)	IH-50 (15
Peerless 80.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-34 (5)	IF-1 (115)	IG-1 (51)	IH-94 (3)
Peerless 69.....D. (1926)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-95 (3)
Peerless 60.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Peerless 69.....D. (1927)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-95 (3)
Peerless 72.....D. (1927)	IA-8 (41)	IB-10 (106)	IC-74 (2)	ID-59 (2)	IE-20 (24)	IF-3 (83)	IG-11 (10)	IH-50 (15)
Peerless 80.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-29 (14)	IF-1 (115)	IG-1 (51)	IH-94 (3)
Peerless 90.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Peerless 60.....A.-L. (1928)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-50 (15)
Peerless 69.....D. (1928)	IA-10 (28)	IB-10 (106)	IC-18 (20)	ID-15 (23)	IE-20 (24)	IF-3 (83)	IG-10 (39)	IH-95 (3)
Peerless 80.....A.-L. (1928)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-29 (14)	IF-1 (115)	IG-1 (51)	IH-94 (3)
Peerless 91.....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-18 (29)	IE-4 (44)	IF-3 (83)	IG-12 (23)	IH-50 (15)
Peerless 81.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-29 (14)	IF-3 (83)	IG-35 (12)	IH-50 (15)
Peerless 91.....D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-18 (29)	IE-1 (48)	IF-3 (83)	IG-12 (23)	IH-50 (15)
Peerless 125.....D.-R. (1929)	*IA-4 (184)	IB-33 U. (13) IB-32 L. (22)	IC-75 (2)	ID-60 (2)	IE-69 (2)	IF-62 (1)	IG-35 (12)	IH-8 (76)
Peerless 61.....A.-L. (1929-30)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-3 (83)	IG-35 (12)	IH-50 (15)
Peerless 91.....D.-R. (1930)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-18 (29)	IE-6 (23)	IF-3 (83)	IG-12 (23)	IH-50 (15)
Peerless B, C.....A.-L. (1930)	*IA-41 (5)	*IB-12 (58)	IC-55 (6)	ID-3 (6)	IE-103 (1)	IF-85 (1)	IG-60 (3)	IH-129 (3)
Pierce Arrow 80.....D. (1925)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-20 (24)	IF-3 (83)	IG-24 (33)	IH-33 (18)
Pierce Arrow 33.....D. (1926)	IA-8 (41)	IB-10 (106)	IC-76 (1)	ID-61 (1)	IE-20 (24)	IF-3 (83)	IG-46 (1)	IH-33 (18)
Pierce Arrow 80.....D.-R. (1926)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-20 (24)	IF-3 (83)	IG-24 (33)	IH-33 (18)
Pierce Arrow 36.....D.-R. (1927)	IA-8 (41)	IB-10 (106)	IC-77 (2)	ID-62 (2)	IE-70 (2)	IF-3 (83)	IG-47 (2)	IH-33 (18)
Pierce Arrow 80.....D.-R. (1927)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-20 (24)	IF-3 (83)	IG-24 (33)	IH-33 (18)
Pierce Arrow 36.....D.-R. (1928)	IA-8 (41)	IB-10 (106)	IC-77 (2)	ID-62 (2)	IE-70 (2)	IF-3 (83)	IG-47 (2)	IH-33 (18)
Pierce Arrow 81.....D.-R. (1928)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-16 (15)	IE-71 (1)	IF-3 (83)	IG-9 (16)	IH-33 (18)
Pierce Arrow 133, 143...D.-R. (1929)	IA-4 (184)	IB-33 U. (13) IB-32 L. (22)	IC-78 (2)	ID-63 (2)	IE-72 (13)	IF-65 (1)	IG-35 (12)	IH-33 (18)
Pierce Arrow A, B.....D.-R. (1930)	*IA-4 (184)	IB-33 U. (13) IB-32 L. (22)	IC-78 (2)	ID-63 (2)	IE-72 (13)	IF-86 (1)	IG-35 (12)	IH-33 (18)
Pierce Arrow C.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) IB-31 L. (63)	IC-11 (6)	ID-5 (42)	IE-72 (13)	IF-87 (1)	IG-7 (70)	IH-33 (18)
Plymouth 4 cyl.....D.-R. (1929-30)	IA-4 (184)	IB-6 (43)	IC-24 (4)	ID-8 (44)	IE-15 (15)	IF-2 (116)	IG-7 (70)	IH-26 (5)
Pontiac 6.....R. (1926-27)	IA-6 (15)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-4 (44)	IF-2 (116)	IG-6 (27)	IH-82 (3)
Pontiac 6.....D.-R. (1928-29)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	§IE-4 (44)	IF-2 (116)	IG-7 (70)	IH-83 (3)
Pontiac 6.....D.-R. (1930)	IA-4 (184)	IB-6 (43)	IC-9 (39)	ID-8 (44)	IE-89 (2)	IF-2 (116)	IG-7 (70)	IH-83 (3)
Reo T6.....N.-E. (1925)	IA-15 (3)	IB-15 (9)	IC-79 (2)	ID-21 (3)	IE-73 (2)	None	IG-43 (2)	IH-97 (2)
Reo T6.....N.-E. (1926-27)	IA-15 (3)	IB-15 (9)	IC-79 (2)	ID-21 (3)	IE-73 (2)	None	IG-43 (2)	IH-97 (2)
Reo Flying Cloud.....R. (1927)	IA-4 (184)	IB-4 (38)	IC-10 (18)	ID-7 (23)	IE-15 (15)	None	IG-3 (26)	IH-98 (1)
Reo Wolverine.....N.-E. (1927)	IA-16 (7)	IB-15 (9)	IC-31 (4)	ID-22 (7)	IE-22 (4)	None	IG-21 (12)	IH-99 (2)
Reo Flying Cloud.....D.-R. (1928)	IA-4 (184)	IB-8 (29)	IC-10 (18)	ID-10 (35)	IE-15 (15)	None	IG-12 (23)	IH-69 (9)
Reo Wolverine.....N.-E. (1928)	IA-16 (7)	IB-15 (9)	IC-31 (4)	ID-22 (7)	IE-22 (4)	None	IG-21 (12)	IH-99 (2)
Reo Flying Cloud, Mstr..D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-10 (18)	ID-10 (35)	IE-72 (13)	None	IG-12 (23)	IH-69 (9)
Reo Flying Cloud Mate..D.-R. (1929)	IA-4 (184)	IB-8 (29)	IC-16 (14)	ID-10 (35)	IE-72 (13)	None	IG-12 (23)	IH-8 (76)
Reo Flying Cloud 20, 25..D.-R. (1930)	IA-4 (184)	IB-8 (29)	IC-10 (18)	ID-10 (35)	IE-72 (13)	None	IG-12 (23)	IH-69 (9)
Revere M.....B. (1925)	IA-37 (1)	IB-27 (1)	IC-80 (1)	ID-64 (1)	IE-74 (1)	IF-69 (1)	IG-48 (1)	IH-100 (1)
Revere 25.....B. (1925)	IA-38 (1)	IB-28 (1)	IC-93 (1)	ID-77 (2)	IE-86 (5)	IF-70 (1)	IG-49 (1)	IH-101 (1)
Revere 25.....R.B. (1926)	IA-39 (1)	IB-29 (1)	IC-94 (1)	ID-78 (1)	IE-87 (1)	IF-80 (1)	IG-54 (1)	IH-127 (1)
Revere M.....R.B. (1926)	IA-40 (1)	IB-30 (2)	IC-95 (1)	ID-79 (1)	IE-88 (1)	IF-81 (1)	IG-55 (4)	IH-128 (1)
Rickenbacker A-8.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-81 (1)	ID-65 (1)	IE-10 (19)	IF-3 (83)	IG-10 (39)	IH-121 (4)
Rickenbacker D-6.....B. (1925)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-12 (14)	None	IG-13 (17)	IH-102 (3)
Rickenbacker 8-B.....B. (1926)	IA-10 (28)	IB-10 (106)	IC-82 (1)	ID-14 (15)	IE-75 (1)	IF-3 (83)	IG-10 (39)	IH-121 (4)
Rickenbacker 6-E.....B. (1926)	IA-12 (21)	IB-11 (24)	IC-22 (15)	ID-17 (15)	IE-48 (5)	None	IG-13 (17)	IH-102 (3)
Rickenbacker 6-70.....N.-E. (1927)	IA-11 (21)	IB-1 (74)	IC-22 (15)	ID-17 (15)	IE-1 (48)	None	IG-1 (51)	IH-102 (3)
Rickenbacker 8-80.....A.-L. (1927)	IA-13 (43)	IB-11 (24)	IC-83 (2)	ID-66 (2)	IE-1 (48)	IF-3 (83)	IG-26 (21)	IH-121 (4)
Rickenbacker 8-90.....A.-L. (1927)	IA-13 (43)	IB-11 (24)	IC-83 (2)	ID-66 (2)	IE-1 (48)	IF-3 (83)	IG-26 (21)	IH-121 (4)
Roamer 4-75E.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-84 (2)	ID-67 (2)	IE-76 (2)	IF-72 (2)	IG-22 (3)	IH-103 (2)
Roamer 6-54E.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-37 (7)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-24 (33)	IH-104 (3)
Roamer 8-88.....A.-L. (1925-26)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-14 (15)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 6-50.....D. (1925-26)	IA-8 (41)	IB-10 (106)	IC-12 (2)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-24 (33)	IH-104 (3)
Roamer 4-75E.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-84 (2)	ID-67 (2)	IE-76 (2)	IF-72 (2)	IG-22 (3)	IH-103 (2)
Roamer 6-54E.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-37 (7)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-24 (33)	IH-104 (3)
Roamer 8-80.....A.-L. (1926-27)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-88.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-78.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-78.....A.-L. (1928)	IA-1 (60)	IB-1 (74)	IC-5 (62)	ID-9 (22)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-80.....A.-L. (1928)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-88.....A.-L. (1928)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-78.....A.-L. (1929)	IA-1 (60)	IB-1 (74)	IC-5 (62)	ID-9 (22)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-80.....A.-L. (1929)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Roamer 8-88.....A.-L. (1929)	IA-1 (60)	IB-1 (74)	IC-39 (9)	ID-27 (33)	IE-77 (13)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Rollia G, Dy.....(1925)	IA-35 (1)	IB-1 (74)	IC-85 (1)	ID-68 (1)	IE-78 (1)	IF-73 (1)	IG-1 (51)	IH-105 (1)
Ruxton.....A.-L. (1929-30)	*IA-41 (5)	*IB-12 (58)	IC-55 (6)	ID-3 (6)	IE-31 (7)	IF-86 (1)	IG-60 (3)	IH-43 (10)
Star F.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-21 (8)	ID-27 (33)	IE-32 (9)	IF-1 (115)	IG-24 (33)	IH-44 (11)
Star M.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-21 (8)	ID-27 (33)	IE-32 (9)	IF-1 (115)	IG-24 (33)	IH-44 (11)
Star R.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-20 (24)	ID-27 (33)	IE-34 (5)	IF-1 (115)	IG-24 (33)	IH-44 (11)
Star M.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-21 (8)	ID-27 (33)	IE-32 (9)	IF-1 (115)	IG-24 (33)	IH-44 (11)
Star R.....A.-L. (1927-28)	IA-1 (60)	IB-1 (74)	IC-20 (24)	ID-27 (33)	IE-34 (5)	IF-1 (115)	IG-24 (33)	IH-44 (11)
Stearns Knight B.....DeJ. (1925)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-80 (6)	IF-1 (115)	IG-24 (33)	IH-122 (7)
Stearns Knight C.....DeJ. (1925)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-80 (6)	IF-1 (115)	IG-24 (33)	IH-122 (7)
Stearns Knight S.....DeJ. (1925)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-80 (6)	IF-1 (115)	IG-24 (33)	IH-122 (7)
Stearns Knight B.....DeJ. (1926)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-80 (6)	IF-1 (115)	IG-24 (33)	IH-122 (7)
Stearns Knight C75.....DeJ. (1926)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-80 (6)	IF-1 (115)	IG-24 (33)	IH-122 (7)
Stearns Knight S95.....DeJ. (1926)	IA-22 (13)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-80 (6)	IF-1 (115)	IG-24 (33)	IH-122 (7)
Stearns Knight F 6-85....DeJ. (1927)	IA-32 (10)	IB-1 (74)	IC-1 (50)	ID-27 (33)	IE-81 (6)	None	IG-41 (9)	IH-122 (7)
Stearns Knight 885.....DeJ. (1927-28)	IA-32 (10)	IB-12 (58)	IC-86 (3)	ID-69 (3)	IE-81 (6)	None	IG-41 (9)	IH-120 (22)
Stearns Knight F 6-85....DeJ. (1928)	IA-32 (10)	IB-12 (58)	IC-1 (50)	ID-27 (33)	IE-81 (6)	None	IG-41 (9)	IH-120 (22)
Stearns Knight HJ 8-90...DeJ. (1928)	IA-32 (10)	IB-12 (58)	IC-86 (3)	ID-69 (3)	IE-81 (6)	None	IG-41 (9)	IH-123 (2)
Stearns Knight MN 6-80..A.-L. (1928-29)	IA-32 (10)	IB-12 (58)	IC-1 (50)	ID-27 (33)	IE-81 (6)	None	IG-1 (51)	IH-120 (22)
Stearns Knight HJ 8-90..DeJ. (1929-30)	IA-32 (10)	IB-12 (58)	IC-86 (3)	ID-69 (3)	IE-81 (6)	None	IG-41 (9)	IH-123 (2)
Stevens Duryea, G.....(1925-26)	IA-36 (1)	IB-30 (2)	IC-87 (1)	ID-70 (1)	IE-82 (1)	IF-74 (1)	IG-50 (1)	IH-106 (1)
Studebaker Big 6.....R. (1925)	IA-29 (8)	IB-5 (16)	IC-4 (11)	ID-71 (2)	IE-62 (3)	IF-2 (116)	IG-23 (9)	IH-107 (10)
Studebaker Spec. 6.....R. (1925)	IA-29 (8)	IB-5 (16)	IC-4 (11)	ID-71 (2)	IE-62 (3)	IF-2 (116)	IG-23 (9)	IH-107 (10)
Studebaker Std. 6.....R. (1925)	IA-29 (8)	IB-5 (16)	IC-88 (3)	ID-72 (2)	IE-83 (6)	IF-2 (116)	IG-53 (3)	IH-108 (1)
Studebaker Big 6.....R. (1926)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-83 (6)	IF-2 (116)	IG-23 (9)	IH-107 (10)
Studebaker Std. 6.....R. (1926)	IA-29 (8)	IB-5 (16)	IC-88 (3)	ID-72 (2)	IE-83 (6)	IF-2 (116)	IG-53 (3)	IH-107 (10)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

FOOTNOTE: *For corresponding numbers of Guaranteed Parts Co. see page 247.*

Digitized by Google

IGNITION SYSTEM—Continued

Car Make and Model	Contact or Breaker Arm (See Footnote)	Contact Screw (See Footnote)	Distributor Cap (See Footnote)	Distributor Rotor (See Footnote)	Coil	Resistance Unit	Condenser	Distributor Shaft Gear or Coupling
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Studebaker Spec. 6.....R. (1926)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-83 (6)	IF-2 (116)	IG-23 (9)	IH-107 (10)
Studebaker Big 6.....D.-R. (1927)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-83 (6)	IF-2 (116)	IG-23 (9)	IH-107 (10)
Studebaker Spec. 6.....R. (1927)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-83 (6)	IF-2 (116)	IG-3 (26)	IH-107 (10)
Studebaker Std. 6.....D.-R. (1927)	IA-4 (184)	IB-4 (38)	IC-88 (3)	ID-77 (2)	IE-3 (27)	IF-2 (116)	IG-53 (3)	IH-107 (10)
Studebaker Com. 6.....D.-R. (1928)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-72 (13)	None	IG-3 (26)	IH-107 (10)
Studebaker Dict. 6.....D.-R. (1928)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-3 (27)	None	IG-3 (26)	IH-107 (10)
Studebaker Pres. 8.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-46 (6)	ID-37 (7)	IE-72 (13)	None	IG-35 (12)	IH-109 (5)
Studebaker Dict. 6.....D.-R. (1929)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-3 (27)	None	IG-3 (26)	IH-110 (3)
Studebaker Com. 6.....D.-R. (1929-30)	*IA-4 (184)	*IB-4 (38)	IC-16 (14)	ID-7 (23)	IE-72 (13)	None	IG-3 (26)	IH-110 (3)
Studebaker Com. 8.....D.-R. (1929-30)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-72 (13)	None	IG-7 (70)	IH-109 (5)
Studebaker Pres.....D.-R. (1929-30)	*IA-4 (184)	IB-33 U. (15) / IB-32 L. (22)	IC-46 (6)	ID-37 (7)	IE-72 (13)	None	IG-35 (12)	IH-109 (5)
Studebaker Dict. 6.....D.-R. (1930)	IA-4 (184)	IB-6 (45)	IC-9 (39)	ID-8 (44)	IE-72 (13)	None	IG-7 (70)	IH-109 (5)
Studebaker Dict. 8.....D.-R. (1930)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-11 (6)	ID-5 (42)	IE-72 (13)	None	IG-30 (1)	IH-109 (5)
Stutz 695.....R. (1925)	IA-4 (184)	IB-4 (38)	IC-4 (11)	ID-4 (9)	IE-2 (56)	IF-2 (116)	IG-3 (26)	IH-111 (1)
Stutz AA.....D. (1926)	IA-10 (28)	IB-10 (106)	IC-89 (4)	ID-73 (4)	IE-4 (44)	IF-57 (9)	IG-10 (39)	IH-112 (2)
Stutz AA.....D. (1927)	IA-10 (28)	IB-10 (106)	IC-89 (4)	ID-73 (4)	IE-4 (44)	IF-57 (9)	IG-10 (39)	IH-112 (2)
Stutz BB.....D.-R. (1928)	IA-4 (184)	IB-10 (106)	IC-89 (4)	ID-73 (4)	IE-6 (23)	IF-57 (9)	IG-10 (39)	IH-113 (2)
Stutz, Series M.....D.-R. (1929-30)	IA-4 (184)	IB-10 (106)	IC-89 (4)	ID-73 (4)	IE-6 (23)	IF-77 (1)	IG-10 (39)	IH-113 (2)
Velie 60.....R. (1925)	IA-4 (184)	IB-4 (38)	IC-8 (26)	ID-7 (23)	IE-3 (27)	IF-2 (116)	IG-3 (26)	IH-114 (2)
Velie 60.....R. (1926)	IA-6 (15)	IB-6 (45)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-2 (116)	IG-6 (27)	IH-114 (2)
Velie Spec. 60.....D.-R. (1927)	IA-4 (184)	IB-6 (45)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-1 (115)	IG-6 (27)	IH-8 (76)
Velie Std. 50.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-104 (2)	IF-2 (116)	IG-1 (51)	IH-116 (2)
Velie Spec. 60.....D.-R. (1928)	IA-4 (184)	IB-6 (45)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-1 (115)	IG-7 (70)	IH-115 (2)
Velie 6-66.....A.-L. (1928)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-104 (2)	IF-2 (116)	IG-1 (51)	IH-116 (2)
Velie 6-77.....D.-R. (1928)	IA-4 (184)	IB-6 (45)	IC-9 (39)	ID-8 (44)	IE-3 (27)	IF-1 (115)	IG-7 (70)	IH-115 (2)
Velie 88.....D.-R. (1928)	*IA-4 (184)	IB-7 U. (73) / IB-31 L. (63)	IC-5 (62)	ID-5 (42)	IE-3 (27)	None	IG-7 (70)	IH-8 (76)
Viking.....D.-R. (1929-30)	*IA-4 (184)	*IB-6 (45)	IC-90 (1)	ID-8 (44)	IE-84 (1)	IF-79 (1)	IG-7 (70)	IH-117 (1)
Westcott 44.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-91 (2)	ID-74 (2)	IE-85 (2)	IF-3 (83)	IG-9 (16)	IH-118 (2)
Westcott 60.....D. (1925)	IA-8 (41)	IB-10 (106)	IC-91 (2)	ID-74 (2)	IE-85 (2)	IF-3 (83)	IG-9 (16)	IH-118 (2)
Whippet 96, 4 cyl.....A.-L. (1927)	IA-13 (43)	IB-12 (58)	IC-21 (8)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-89 (5)
Whippet 93A, 6 cyl.....A.-L. (1927)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Whippet 96, 4 cyl.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-21 (8)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-89 (5)
Whippet 98, 6 cyl.....A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Whippet 96A.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-21 (8)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-89 (5)
Whippet 98A.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-1 (48)	IF-1 (115)	IG-26 (21)	IH-43 (10)
Wills St. Claire 88.....D. (1925)	IA-11 (21)	IB-10 (106)	IC-92 (2)	ID-75 (2)	IE-20 (24)	IF-3 (83)	IG-51 (2)	IH-125 (2)
Wills St. Claire W6.....D. (1925)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-76 (2)	IE-60 (3)	IF-3 (83)	IG-52 (2)	IH-126 (2)
Wills St. Claire B, C68.....D. (1926)	IA-11 (21)	IB-10 (106)	IC-92 (2)	ID-75 (2)	IE-20 (24)	IF-3 (83)	IG-51 (2)	IH-125 (2)
Wills St. Claire T, W6.....D. (1926)	IA-11 (21)	IB-10 (106)	IC-65 (11)	ID-76 (2)	IE-60 (3)	IF-3 (83)	IG-52 (2)	IH-126 (2)
Willys 6.....A.-L. (1930)	IA-13 (43)	IB-12 (58)	IC-20 (24)	ID-18 (29)	IE-105 (1)	None	IG-26 (21)	IH-136 (1)
Willys Knight 66.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-36 (5)	ID-27 (33)	IE-35 (6)	IF-1 (115)	IG-24 (33)	IH-119 (2)
Willys Knight 65.....A.-L. (1925)	IA-1 (60)	IB-1 (74)	IC-36 (5)	ID-27 (33)	IE-35 (6)	IF-1 (115)	IG-24 (33)	IH-119 (2)
Willys Knight 66.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight 70.....A.-L. (1926)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight 66A.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight 70A.....A.-L. (1927)	IA-1 (60)	IB-1 (74)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight Great 6...A.-L. (1928)	IA-13 (43)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight Std. 6-56..A.-L. (1928-29)	IA-13 (43)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight Spec. 6-70A.A.-L. (1928-29)	IA-13 (43)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight 66A.....A.-L. (1928-29)	IA-13 (43)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-1 (51)	IH-120 (22)
Willys Knight 70B.....A.-L. (1929)	IA-13 (43)	IB-12 (58)	IC-1 (50)	ID-1 (40)	IE-1 (48)	IF-1 (115)	IG-28 (8)	IH-120 (22)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

KEY TO ABBREVIATIONS

*Two used. †Two used on 1930 model. ‡IE-6 used on 1930 model. §IE-6 used on 1929 model.

A.-L.—Auto-Lite.
A.-K.—Atwater-Kent.
B.—Bosch.
D.—Delco.
DeJ.—DeJon.
D.-R.—Delco-Remy.
Dy.—Dyneto.
L.—Lower.
N.-E.—North-East.
R.—Remy.
U.—Upper.

FOOTNOTE: *For corresponding numbers of Guaranteed Parts Co. see page 247.*

Digitized by Google

GENERATOR PARTS

and STARTER SPRINGS (Bendix Type) Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the part is needed.
2. Follow this line across to column pertaining to that part.
3. In this Part Column opposite your car model you will find the CHILTON NUMBER for the part you want. (The figure in parentheses tells you how many times you can find this CHILTON NUMBER in this column.)
4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from another local dealer or distributor.

Example: Suppose a Generator Armature is needed for an Auburn 4 (1925) car. Locate this car in the first column. Follow across to the column on Generator Armature, which is the third column. Here you see the CHILTON NUMBER for this part is KA-5. The figure four (4) in parentheses means that this CHILTON NUMBER occurs four times in this column, indicating that three or more other car models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number KA-5 opposite the Auburn 4-44 (1926-27), Elcar 4-40 (1925), and the Elcar 4-55 (1926-27) cars. The Generator Armature used in all these cars is interchangeable with the one in your Auburn 4 (1925).

For Generator Bearing Data, See Pages 221 to 240—For Generator Drive Chain Data, See Pages 210 to 215

Car Make and Model	Generator Assembly	Armature	Field Coils	Main Brushes	Third Brush	Drive Gear or Sprocket	Starting Motor Drive Spring (Bendix Type)
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column							
Ajax (1925-26)	K-1 (1)	KA-1 (2)	KB-1 (63)	KC-1 (52)	KD-1 (60)	None	*NE-4L (48)
Anderson 41 (1925)	K-2 (1)	KA-2 (1)	KB-2 (5)	KC-2 (2)	KD-2 (2)	KE-1 (7)	NE-2R (226)
Anderson 50 (1925)	K-3 (1)	KA-177 (1)	KB-2 (5)	KC-2 (2)	KD-2 (2)	KE-2 (13)	NE-2R (226)
Apperson 6 (1925)	K-4 (1)	KA-3 (12)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-3 (6)	NE-2R (226)
Apperson Str. 8 (1925)	K-5 (9)	KA-3 (12)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-4 (3)	NE-2R (226)
Apperson 6 (1926)	K-6 (3)	KA-3 (3)	KB-2 (5)	KC-3 (63)	KC-3 (63)	KE-3 (6)	NE-2R (226)
Apperson Str. 8 (1926)	K-5 (9)	KA-3 (12)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-4 (3)	NE-2R (226)
Auburn 4 (1925)	K-7 (3)	KA-5 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-5 (5)	NE-2R (226)
Auburn 6-43 (1925)	K-8 (1)	KA-6 (1)	KB-3 (33)	KC-4 (109)	KC-4 (109)	KE-1 (7)	NE-2R (226)
Auburn 8-88 (1925)	K-5 (9) / K-9 (10)	KA-4 (12) / KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Auburn 8-88 (1926)	K-5 (9) / K-9 (10)	KA-4 (12) / KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Auburn 4-44 (1926-27)	K-7 (3)	KA-5 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-5 (5)	NE-2R (226)
Auburn 6-66 (1926-27)	K-9 (10)	KA-8 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-7 (4)	NE-2R (226)
Auburn 6-66A (1927)	K-10 (2)	KA-8 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-8 (2)	NE-2R (226)
Auburn 8-88 (1927-28)	K-11 (6)	KA-8 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Auburn 8-77 (1927-28)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-9 (7)	NE-2R (226)
Auburn 76 (1928-29)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Auburn 88 (1928-29)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Auburn 115 (1928-29)	K-13 (1)	KA-7 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Auburn 6-80 (1929)	K-14 (8)	KA-9 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Auburn 8-90 (1929)	K-14	KA-9 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Auburn 120 (1929)	K-16 (3)	KA-7 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-6 (21)	NE-2R (226)
Auburn 6-85 (1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Auburn 8-95 (1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Auburn 125 (1930)	K-16	KA-7	KB-4	KC-4	KC-4	KE-6	NE-2R
Austin (1930)	K-243	KA-184	KB-52	KC-37	KD-35	KE-135	NE-8
Blackhawk L-6 (1929)	K-18 (1)	KA-11 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-10 (1)	None
Blackhawk L-8 (1929)	K-15 (1)	KA-164 (1)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-11 (1)	NE-2R
Blackhawk L6 (1930)	K-18	KA-11	KB-4	KC-4	KC-4	KE-10	None
Blackhawk L8 (1930)	K-15	KA-164	KB-6	KC-4	KC-4	KE-11	NE-2R
Buick Master (1925)	K-19 (1)	KA-12 (1)	KB-7 (1)	KC-5 (43)	KD-4 (47)	KE-12 (4)	None
Buick Std. (1925)	K-20 (1)	KA-13 (1)	KB-8 (1)	KC-5 (43)	KD-4 (47)	KE-13 (4)	None
Buick Master (1926)	K-21 (4)	KA-14 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-12 (4)	None
Buick Std. (1926)	K-21 (4)	KA-14 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-13 (4)	None
Buick 115 (1927)	K-21 (4)	KA-14 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-13 (4)	None
Buick 120, 128 (1927)	K-21 (4)	KA-14 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-12 (4)	None
Buick 115 (1928)	K-23 (2)	KA-15 (2)	KB-4 (113)	KC-5 (43)	KD-4 (47)	KE-13 (4)	None
Buick 120, 128 (1928)	K-23 (2)	KA-15 (2)	KB-4 (113)	KC-5 (43)	KD-4 (47)	KE-12 (4)	None
Buick 116 (1929)	K-24 (2)	KA-16 (2)	KB-4 (113)	KC-5 (43)	KD-4 (47)	KE-14 (1)	None
Buick 121, 129 (1929)	K-24 (2)	KA-16 (2)	KB-4 (113)	KC-5 (43)	KD-4 (47)	KE-15 (1)	None
Buick 40 (1930)	K-24	KA-16	KB-4	KC-5	KD-4	KE-14	None
Buick 50, 60 (1930)	K-24	KA-16	KB-4	KC-5	KD-4	KE-15	None
Buick 8-50 (1930)	K-241	KA-89	KB-53	KC-5	KD-4	KE-136	None
Buick 8-60 (1930)	K-242	KA-89	KB-53	KC-5	KD-4	KE-137	None
Buick 8-80, 8-90 (1930)	K-242	KA-89	KB-53	KC-5	KD-4	KE-138	None
Cadillac V-63 (1925)	K-25 (1)	KA-17 (1)	KB-10 (1)	KC-6 (9)	KD-5 (2)	KE-16 (5)	None
Cadillac 314 (1926)	K-26 (2)	KA-18 (2)	KB-11 (2)	KC-7 (2)	KD-6 (2)	KE-17 (5)	None
Cadillac 314 (1927)	K-26 (2)	KA-18 (2)	KB-11 (2)	KC-7 (2)	KD-6 (2)	KE-17 (5)	None
Cadillac 341-A (1928)	K-27 (4)	KA-19 (5)	KB-9 (48)	KD-4 (6)	KD-4 (47)	KE-18 (4)	None
Cadillac 341-B (1929)	K-27 (4)	KA-19 (5)	KB-9 (48)	KD-4 (6)	KD-4 (47)	KE-19 (8)	None
Cadillac 353 (1930)	K-139	KA-19	KB-9	KC-5	KD-4	KE-19	None
Cadillac 452 (1930)	K-214	KA-132	KB-9	KC-5	KD-4	KE-134	None
Case JIC (1925)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-2 (13)	NE-2R (226)
Case X (1925)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-2 (13)	NE-2R (226)
Case Y (1925)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-2 (13)	NE-2R (226)
Case JIC (1926-27)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-2 (13)	NE-2R (226)
Case Y (1926-27)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-2 (13)	NE-2R (226)
Chandler 33 (1925)	K-28 (1)	KA-20 (1)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-16 (5)	NE-1R (18)
Chandler 35 (1926)	K-29 (3)	KA-21 (3)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-17 (5)	NE-1R (18)
Chandler Big 6 (1927)	K-29 (3)	KA-21 (3)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-17 (5)	NE-5L (56)
Chandler Royal 8 (1927)	K-30 (2)	KA-23 (3)	KB-6 (40)	KC-3 (63)	KC-3 (63)	KE-18 (4)	NE-2R (226)
Chandler Spec. 6 (1927)	K-31 (4)	KA-24 (4)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-16 (5)	NE-4L (48)
Chandler Std. 6 (1927)	K-31 (4)	KA-24 (4)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-16 (8)	NE-5L (56)
Chandler Big 6 (1928)	K-29 (3)	KA-21 (3)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-17 (5)	NE-2R (226)
Chandler Royal 8 (1928)	K-33 (1)	KA-23 (3)	KB-6 (40)	KC-3 (63)	KC-3 (63)	KE-18 (4)	NE-2R (226)
Chandler Spec. 6 (1928)	K-31 (4)	KA-24 (4)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-19 (8)	NE-4L (48)
Chandler Spec. In. 6 (1928)	K-31 (4)	KA-24 (4)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-19 (8)	NE-4L (48)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column. (New numbers added in this issue have no count in italics.)

Digitized by Google

GENERATOR PARTS—Continued

Car Make and Model	Generator Assembly	Armature	Field Coils	Main Brushes	Third Brush	Drive Gear or Sprocket	Starting Motor Drive Spring (Bendix Type)
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column							
Chevrolet K.....(1925)	K-34 (1)	KA-25 (1)	KB-13 (3)	KC-4 (109)	KC-4 (109)	KE-20 (2)	†NE-2R (226)
Chevrolet V.....(1926)	K-35 (6)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-20 (2)	NE-1R (18)
Chevrolet AA.....(1927)	K-35 (6)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Chevrolet AB.....(1928)	K-35 (6)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Chevrolet AC.....(1929)	K-36 (2)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Chevrolet.....(1930)	K-36	KA-26	KB-4	KC-4	KC-4	None	NE-1R
Chrysler 6-B.....(1925)	K-37 (2)	KA-27 (2)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-21 (3)	NE-2R (226)
Chrysler 70.....(1925)	K-37 (2)	KA-27 (2)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-22 (3)	NE-2R (226)
Chrysler 58.....(1926)	K-38 (2)	KA-28 (2)	KB-13 (3)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Chrysler 70.....(1926)	K-39 (2)	KA-29 (2)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-22 (3)	NE-2R (226)
Chrysler 80.....(1926)	K-40 (2)	KA-30 (2)	KB-6 (40)	KC-3 (63)	KC-3 (63)	KE-24 (4)	NE-8 (1)
Chrysler 50.....(1927)	K-41 (1), K-43 (3)	KA-31 (3)	KB-14 (3)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Chrysler 60.....(1927)	K-42 (1), K-44 (3)	KA-32 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-21 (3)	NE-2R (226)
Chrysler 70.....(1927)	K-39 (2)	KA-29 (2)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-22 (3)	NE-2R (226)
Chrysler 80.....(1927)	K-40 (2)	KA-30 (2)	KB-6 (40)	KC-3 (63)	KC-3 (63)	KE-24 (4)	‡NE-2R (226)
Chrysler 52.....(1928)	K-43 (3)	KA-31 (3)	KB-14 (3)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Chrysler 62.....(1928)	K-44 (3)	KA-32 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-21 (3)	NE-2R (226)
Chrysler 72.....(1928)	K-44 (3)	KA-32 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-23 (2)	NE-2R (226)
Chrysler Imp. 80.....(1928)	K-45 (3)	KA-33 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-24 (4)	NE-2R (226)
Chrysler 65.....(1929)	K-46 (2)	KA-26 (17)	KB-15 (2)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Chrysler 75.....(1929)	K-47 (1)	KA-34 (1)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-23 (2)	NE-9 (1)
Chrysler Imp. 80.....(1929)	K-45 (3)	KA-33 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-24 (4)	NE-10 (1)
Chrysler Six.....(1930)	K-57	KA-44	KB-21	KC-4	KC-4	None	None
Chrysler 66.....(1930)	K-46	KA-26	KB-15	KC-4	KC-4	None	None
Chrysler 70.....(1930)	K-215, K-218	KA-26, KA-165	KB-54	KC-4	KC-4	None	None
Chrysler 77.....(1930)	K-215, K-218	KA-26, KA-165	KB-54	KC-4	KC-4	None	None
Chrysler Imp. 80.....(1930)	K-45	KA-33	KB-4	KC-4	KC-4	KE-24	None
Chrysler 8.....(1930)	K-244	KA-26	KB-4	KC-4	KC-4	None	None
Chrysler Imp. 8.....(1930)	K-218	KA-165	KB-54	KC-4	KC-4	None	None
Cleveland 31.....(1925)	K-32 (2)	KA-35 (2)	KB-6 (40)	KC-8 (23)	KC-7 (1)	KE-19 (8)	NE-4L (48)
Cleveland 43.....(1925)	K-32 (2)	KA-35 (2)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-16 (6)	NE-4L (48)
Cleveland 31.....(1926)	K-48 (1)	KA-36 (2)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-19 (8)	NE-4L (48)
Cleveland 43.....(1926)	K-22 (1)	KA-36 (2)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-16 (6)	NE-4L (48)
Cole Master.....(1925)	K-49 (1)	KA-37 (1)	KB-16 (1)	KC-5 (43)	KD-5 (2)	None	NE-5L (54)
Cord L29.....(1930)	K-95	KA-130	KB-4	KC-4	KC-4	KE-6	NE-2R
Davis 90.....(1925)	K-52 (1)	KA-40 (1)	KB-19 (1)	KC-5 (43)	KD-4 (47)	KE-1 (7)	NE-2R (226)
Davis 91.....(1925)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-2 (13)	NE-2R (226)
Davis 90.....(1926)	K-56 (1)	KA-108 (1)	KB-46 (1)	KC-5 (43)	KD-4 (47)	KE-1 (7)	NE-2R (226)
Davis 91.....(1926)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-2 (13)	NE-2R (226)
Davis 92.....(1926)	K-54 (4)	KA-42 (4)	KB-9 (48)	KC-11 (7)	KD-10 (8)	KE-27 (2)	NE-2R (226)
Davis 93.....(1926)	K-54 (4)	KA-22 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-28 (1)	NE-2R (226)
Davis 92.....(1927)	K-110 (2)	KA-123 (4)	KB-9 (48)	KC-11 (7)	KD-10 (8)	KE-27 (2)	NE-2R (226)
Davis 94.....(1927)	K-10 (2)	KA-8 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-8 (2)	NE-2R (226)
Davis 98.....(1927)	K-30 (2)	KA-23 (3)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-29 (6)	NE-2R (226)
Davis 99.....(1928)	K-55 (1)	KA-43 (2)	KB-3 (33)	KC-4 (109)	KC-4 (109)	KE-30 (2)	NE-2R (226)
De Soto.....(1928)	K-57 (2)	KA-44 (17)	KB-15 (2)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
De Soto.....(1929)	K-57 (2)	KA-44 (2)	KB-21 (2)	KC-12 (15)	KD-11 (14)	None	NE-2R (226)
De Soto Six.....(1930)	K-57	KA-44	KB-21	KC-33	KD-30	None	None
De Soto Std. 8.....(1930)	K-57	KA-44	KB-21	KC-33	KD-30	None	None
Diana Str. 8.....(1926)	K-54 (4)	KA-42 (4)	KB-9 (48)	KC-11 (7)	KD-10 (8)	KE-31 (3)	NE-2R (226)
Diana Str. 8.....(1927)	K-54 (4)	KA-42 (4)	KB-9 (48)	KC-13 (8)	KD-12 (8)	KE-31 (3)	NE-2R (226)
Diana Str. 8.....(1928)	K-110 (2)	KA-123 (4)	KB-9 (48)	KC-13 (8)	KD-12 (8)	KE-31 (3)	NE-2R (226)
Dodge Brothers 4.....(1925)	K-58 (1)	KA-48 (1)	KB-22 (3)	KC-14 (1)	KD-13 (1)	KE-32 (2)	None
Dodge Brothers 4.....(1926)	K-59 (2)	KA-45 (2)	KB-22 (3)	KC-12 (15)	KD-14 (1)	KE-32 (2)	NE-2R (226)
Dodge Brothers Series 128.....(1927-28)	K-60 (1)	KA-46 (1)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-33 (2)	NE-2R (226)
Dodge Brothers 4.....(1928)	K-59 (2)	KA-45 (2)	KB-22 (3)	KC-12 (15)	KD-11 (14)	KE-33 (2)	NE-2R (226)
Dodge Brothers Senior.....(1928)	K-61 (4)	KA-47 (6)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-34 (2)	NE-2R (226)
Dodge Std. 6.....(1928)	K-61 (4)	KA-47 (6)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-35 (2)	NE-2R (226)
Dodge Brothers Vic. 6.....(1928-29)	K-61 (4)	KA-47 (6)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-35 (2)	NE-2R (226)
Dodge Brothers Senior.....(1929)	K-61 (4)	KA-47 (6)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-34 (2)	NE-2R (226)
Dodge Brothers DA.....(1929)	K-57 (2)	KA-44 (2)	KB-21 (2)	KC-9 (3)	KD-33 (3)	None	NE-2R (226)
Dodge DD6.....(1930)	K-57	KA-44	KB-21	KC-33	KD-30	None	None
Dodge DC8.....(1930)	K-57	KA-44	KB-21	KC-33	KD-30	None	None
Dodge Senior.....(1930)	K-61	KA-47	KB-23	KC-12	KD-11	KE-34	NE-2R
du Pont D.....(1925)	K-64 (2)	KA-51 (2)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-36 (6)	NE-1R (18)
du Pont D.....(1926)	K-64 (2)	KA-51 (2)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-36 (6)	NE-1R (18)
du Pont E.....(1927)	K-65 (4)	KA-52 (3)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-36 (6)	NE-2R (226)
du Pont E, F.....(1928)	K-65 (4)	KA-52 (3)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-36 (6)	NE-2R (226)
du Pont E.....(1929)	K-65 (4)	KA-52 (3)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-36 (6)	NE-2R (226)
du Pont G.....(1929)	K-66 (1)	KA-53 (1)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-37 (6)	NE-2R (226)
du Pont.....(1930)	K-66	KA-53	KB-6	KC-8	KD-7	KE-37	NE-2R
Durant A-22.....(1925)	K-67 (1)	KA-54 (1)	KB-26 (1)	KC-17 (2)	KD-16 (1)	KE-38 (1)	NE-4L (48)
Durant D-55.....(1928)	K-68 (1)	KA-56 (5)	KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-39 (4)	NE-4L (48)
Durant D-65.....(1928)	K-69 (2), K-70 (3)	KA-56 (5)	KB-1 (63), KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-41 (2)	NE-4L (48)
Durant M-2.....(1928-29)	K-69 (2), K-72 (5)	KA-56 (5), KA-57 (7)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-40 (5)	NE-4L (48)
Durant 75.....(1928-29)	K-71 (1)	KA-59 (2)	KB-27 (15)	KC-19 (20)	KD-18 (18)	KE-42 (1)	NE-5L (56)
Durant 4-40.....(1929)	K-72 (5)	KA-57 (7)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-40 (5)	NE-4L (48)
Durant 6-60.....(1929)	K-70 (3)	KA-56 (5)	KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-39 (4)	NE-4L (48)
Durant 66.....(1929)	K-70 (3)	KA-56 (5)	KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-41 (2)	NE-4L (48)
Durant 70.....(1929)	K-73 (1)	KA-59 (2)	KB-27 (15)	KC-19 (20)	KD-18 (18)	KE-43 (1)	NE-5L (56)
Durant 614.....(1930)	K-228	KA-137	KB-27	KC-34	KD-31	None	NE-1R
Durant 617.....(1930)	K-71	KA-59	KB-27	KC-19	KD-18	KE-42	NE-5L
Elcar 4-40.....(1925)	K-7 (3)	KA-5 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-5 (5)	NE-2R (226)
Elcar 6-50.....(1925)	K-74 (1)	KA-60 (1)	KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-1 (7)	NE-1R (18)
Elcar 6-60.....(1925)	K-75 (1)	KA-61 (1)	KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-2 (13)	NE-2R (226)
Elcar 8-80.....(1925)	K-76 (1)	KA-58 (23)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-44 (1)	NE-2R (226)
Elcar 6-65.....(1926)	K-9 (10)	KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-7 (4)	NE-2R (226)
Elcar 8-81.....(1926)	K-9 (10)	KA-58 (23)	KB-3 (33)	KC-9 (3)	KD-33 (3)	KE-45 (4)	NE-2R (226)
Elcar 4-55.....(1926-27)	K-65 (4)	KA-5 (4)	KB-4 (113)	KC-1 (52)	KD-1 (50)	KE-5 (5)	NE-2R (226)
Elcar 6-70.....(1927)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Elcar 8-82.....(1927)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Elcar 8-90.....(1927)	K-11 (6)	KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Elcar 8-91.....(1928)	K-11 (6)	KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Elcar 120.....(1928)	K-16 (3)	KA-7 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-6 (21)	NE-2R (226)
Elcar 6-70.....(1928-29)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Elcar 8-78.....(1928-29)	K-12 (16), K-14 (8)	KA-9 (23)	KB-4 (113)	KC-3 (63), KC-4 (109)	KC-3 (63), KC-4 (109)	KE-9 (7)	NE-2R (226)
Elcar 8-82.....(1928-29)	K-12 (16), K-14 (8)	KA-9 (23)	KB-4 (113)	KC-3 (63), KC-4 (109)	KC-3 (63), KC-4 (109)	None	NE-2R (226)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column. (New numbers added in this issue have no count in italics.)

Digitized by Google

GENERATOR PARTS—Continued

Car Make and Model	Generator Assembly	Armature	Field Coils	Main Brushes	Third Brush	Drive Gear or Sprocket	Starting Motor Drive Spring (Bendix Type)
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column							
Elcar 75.....(1929)	K-14 (8)	KA-9 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Elcar 95, 96.....(1929)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Elcar 120.....(1929)	K-16 (3)	KA-7 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-6 (21)	NE-2R (226)
Elcar 75.....(1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Elcar 75A.....(1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Elcar 95, 96.....(1930)	K-14	KA-9	KB-4	KC 4	KC-4	None	NE-2R
Elcar 120.....(1930)	K-16	KA-7	KB-4	KC-4	KC-4	KE-6	NE-2R
Elcar 130, 140.....(1930)	K-66	KA-133	KB-6	KC 4	KC-4	KE-37	NE-2R
Erskine 6-50.....(1927)	K-77 (1) / K-78 (3)	KA-63 (3)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-46 (3)	NE-2R (226)
Erskine 6-51.....(1928)	K-78 (3)	KA-63 (3)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-46 (3)	NE-2R (226)
Erskine 6-52.....(1929)	K-78 (3)	KA-63 (3)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-46 (3)	NE-2R (226)
Erskine 53.....(1930)	K-219	KA-150	KB-56	KC-4	KC-4	KE-121	NE-2R
Essex 6.....(1925)	K-79 (2)	KA-64 (4)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-47 (5)	NE-4L (48)
Essex 6.....(1926)	K-79 (2)	KA-64 (4)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-47 (5)	NE-4L (48)
Essex Super 6.....(1927)	K-80 (1)	KA- (4)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-47 (5)	NE-4L (48)
Essex Super 6.....(1928)	K-156 (2)	KA- (4)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-47 (5)	NE-4L (48)
Essex Challenger.....(1929)	K-81 (1)	KA-55 (1)	KB-6 (40)	KC-18 (28)	KD-17 (26)	KE-47 (5)	NE-4L (48)
Essex Super Six.....(1930)	K-227	KA-153	KB-57	KC-34	KD-31	KE-47	NE-4L
Falcon Knight 10.....(1927-28)	K-82 (1)	KA-65 (5)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-48 (2)	NE-5L (56)
Falcon Knight 12.....(1928-29)	K-83 (1)	KA-69 (1)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-48 (2)	NE-5L (56)
Flint E55.....(1925)	K-85 (1)	KA-67 (3)	KB-27 (15)	KC-20 (24)	KC-19 (7)	KE-50 (3)	NE-5L (56)
Flint B-40.....(1925-26)	K-84 (1)	KA-66 (3)	KB-27 (15)	KC-33 (3)	KD-34 (3)	KE-49 (3)	NE-4L (48)
Flint 60.....(1926)	K-86 (2)	KA-66 (3)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-49 (3)	NE-5L (56)
Flint 80.....(1926)	K-87 (2)	KA-67 (3)	KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-50 (3)	NE-5L (56)
Flint Jr.....(1926)	K-88 (2)	KA-68 (4)	KB-1 (63)	KC-33 (3)	KD-34 (3)	KE-51 (2)	NE-2R (226)
Flint Jr.....(1927)	K-88 (2)	KA-68 (4)	KB-1 (63)	KC-33 (3)	KD-34 (3)	KE-51 (2)	NE-2R (226)
Flint 60.....(1927-28)	K-86 (2)	KA-68 (3)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-49 (3)	NE-5L (56)
Flint 80.....(1927-28)	K-87 (2)	KA-67 (3)	KB-27 (15)	KC-1 (52)	KD-1 (50)	KE-50 (3)	NE-5L (56)
Ford T.....(1925)	K-89 (3)	KA-70 (3)	KB-20 (3)	KC-21 (3)	KD-20 (3)	KE-52 (3)	NE-4L (48)
Ford T.....(1926)	K-89 (3)	KA-70 (3)	KB-20 (3)	KC-21 (3)	KD-20 (3)	KE-52 (3)	NE-4L (48)
Ford T.....(1927)	K-89 (3)	KA-70 (3)	KB-20 (3)	KC-21 (3)	KD-20 (3)	KE-52 (3)	NE-4L (48)
Ford A.....(1928)	K-90 (1)	KA-71 (1)	KB-28 (1)	KC-17 (2)	KD-21 (1)	None	§NE-6L (1)
Ford A.....(1929)	K-91 (1)	KA-72 (1)	KB-29 (1)	KC-18 (28)	KD-17 (26)	None	NE-5L (56)
Ford A.....(1930)	K-91	KA-169	KB-29	KC-35	KD-32	None	NE-5L
Franklin 11.....(1925)	K-92 (3)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-53 (6)	NE-5L (50)
Franklin 11.....(1926)	K-92 (3)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-53 (6)	NE-5L (56)
Franklin 11-B.....(1927)	K-92 (3)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-53 (6)	NE-5L (56)
Franklin Series 12.....(1927-28)	K-93 (1)	KA-74 (5)	KB-31 (6)	KC-24 (5)	KD-23 (6)	KE-53 (6)	NE-5L (56)
Franklin 130.....(1929)	K-94 (2)	KA-75 (2)	KB-31 (6)	KC-24 (5)	KD-23 (6)	KE-53 (6)	NE-5L (56)
Franklin 135, 137.....(1929)	K-94 (2)	KA-75 (2)	KB-31 (6)	KC-4 (109)	KC-4 (109)	KE-53 (6)	NE-5L (56)
Franklin 145.....(1930)	K-229	KA-75	KB-58	KC-4	KC-4	KE-53	NE-5L
Franklin 147.....(1930)	K-229	KA-75	KB-58	KC-4	KC-4	KE-53	NE-5L
Gardner 6-A.....(1925)	K-9 (10) / K-6 (3)	KA-4 (3) / KA-7 (23)	KB-2 (5) / KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-7 (4)	NE-2R (226)
Gardner 8-A.....(1925)	K-5 (9) / K-9 (10)	KA-3 (12) / KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-4 (3)	NE-2R (226)
Gardner Series 5.....(1925)	K-5 (9)	KA-3 (12)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-5 (5)	NE-2R (226)
Gardner 6-B.....(1926-27)	K-9 (10) / K-6 (3)	KA-4 (3) / KA-7 (23)	KB-2 (5) / KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-7 (4)	NE-2R (226)
Gardner 8-B.....(1926-27)	K-5 (9) / K-9 (10)	KA-3 (12) / KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Gardner 80.....(1927)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-9 (7)	NE-2R (226)
Gardner 90.....(1927)	K-11 (6)	KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Gardner 75.....(1928)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-9 (7)	NE-2R (226)
Gardner 85.....(1928)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Gardner 95.....(1928)	K-11 (6)	KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Gardner 120.....(1929)	K-14 (8)	KA-9 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Gardner 125.....(1929)	K-14 (8)	KA-9 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Gardner 130.....(1929)	K-11 (6)	KA-7 (23)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Gardner 136.....(1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Gardner 140.....(1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Gardner 150.....(1930)	K-16	KA-7	KB-4	KC-4	KC-4	KE-6	NE-2R
Graham Paige 610.....(1928-29)	K-96 (1)	KA-76 (1)	KB-32 (6)	KC-9 (3)	KD-33 (3)	KE-54 (4)	NE-4L (48)
Graham Paige 614.....(1928-29)	K-97 (1)	KA-77 (4)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-54 (4)	NE-2R (226)
Graham Paige 619.....(1928-29)	K-98 (3)	KA-77 (4)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-55 (2)	NE-2R (226)
Graham Paige 629.....(1928-29)	K-98 (3)	KA-77 (4)	KB-23 (11)	KC-12 (15)	KD-11 (14)	KE-55 (2)	NE-2R (226)
Graham Paige 835.....(1928-29)	K-98 (3)	KA-77 (4)	KB-23 (11)	KC-4 (109)	KC-4 (109)	KE-37 (5)	NE-2R (226)
Graham Paige 612.....(1929)	K-99 (1)	KA-78 (1)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-54 (4)	NE-4L (48)
Graham Paige 615.....(1929)	K-100 (1)	KA-79 (1)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-54 (4)	NE-1R (18)
Graham Paige 621.....(1929)	K-101 (3)	KA-80 (3)	KB-33 (6)	KC-4 (109)	KC-4 (109)	KE-56 (1)	NE-12 (1)
Graham Paige 827.....(1929)	K-101 (3)	KA-80 (3)	KB-33 (6)	KC-4 (109)	KC-4 (109)	KE-37 (5)	NE-13 (1)
Graham Paige 837.....(1929)	K-101 (3)	KA-80 (3)	KB-33 (6)	KC-4 (109)	KC-4 (109)	KE-37 (5)	NE-14 (1)
Graham Std. 6.....(1930)	K-230	KA-78	KB-4	KC-4	KC-4	KE-54	NE-4L
Graham Spec. 6.....(1930)	K-100	KA-79	KB-4	KC-4	KC-4	KE-54	NE-2R
Graham Std. 8.....(1930)	K-100	KA-79	KB-4	KC-4	KC-4	KE-54	None
Graham Spec. 8.....(1930)	K-100	KA-79	KB-4	KC-4	KC-4	KE-54	None
Graham Custom 8.....(1930)	K-101	KA-78	KB-33	KC-4	KC-4	KE-37	None
Haynes 60.....(1925)	K-103 (1)	KA-82 (1)	KB-35 (6)	KC-25 (1)	KD-24 (1)	KE-58 (1)	NE-2R (226)
Hudson Super 6.....(1925)	K-104 (1)	KA-83 (1)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-59 (6)	None
Hudson Super 6.....(1926)	K-105 (1)	KA-84 (1)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-59 (6)	None
Hudson Super 6.....(1927)	K-106 (4)	KA-85 (4)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-59 (6)	None
Hudson Super 6O.....(1928)	K-106 (4)	KA-85 (4)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-59 (6)	None
Hudson Super 6S.....(1928)	K-106 (4)	KA-85 (4)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-59 (6)	None
Hudson Greater 6.....(1929)	K-106 (4)	KA-85 (4)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-59 (6)	None
Hudson Gt. 8.....(1930)	K-227	KA-153	KB-57	KC-34	KD-31	KE-47	NE-5L
Hupmobile Series R.....(1925)	K-108 (1)	KA-87 (1)	KB-37 (10)	KC-34 (1)	KD-35 (1)	KE-62 (2)	NE-4L (48)
Hupmobile E1.....(1925-26)	K-107 (2)	KA-86 (2)	KB-37 (10)	KC-1 (52)	KD-1 (50)	KE-60 (6)	NE-5L (56)
Hupmobile A1.....(1926)	K-109 (2)	KA-88 (2)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-61 (4)	NE-5L (56)
Hupmobile E2.....(1926-27)	K-107 (2)	KA-86 (2)	KB-37 (10)	KC-1 (52)	KD-1 (50)	KE-60 (6)	NE-5L (56)
Hupmobile A2.....(1927)	K-109 (2)	KA-88 (2)	KB-1 (63)	KC-19 (20)	KD-18 (18)	KE-61 (4)	NE-5L (56)
Hupmobile E3.....(1927-28)	K-111 (1)	KA-90 (1)	KB-38 (1)	KC-1 (52)	KD-1 (50)	KE-60 (6)	NE-5L (56)
Hupmobile Century 6.....(1928)	K-112 (2)	KA-91 (2)	KB-37 (10)	KC-19 (20)	KD-18 (18)	KE-61 (4)	NE-5L (56)
Hupmobile Century 8.....(1928)	K-113 (3)	KA-92 (3)	KB-37 (10)	KC-19 (20)	KD-18 (18)	KE-60 (6)	NE-5L (56)
Hupmobile Century 125.....(1928)	K-113 (3)	KA-92 (3)	KB-37 (10)	KC-19 (20)	KD-18 (18)	KE-60 (6)	NE-5L (56)
Hupmobile M8.....(1928-29)	K-113 (3)	KA-92 (3)	KB-37 (10)	KC-19 (20)	KD-18 (18)	KE-60 (6)	NE-5L (56)
Hupmobile Century 6.....(1929)	K-112 (2)	KA-91 (2)	KB-37 (10)	KC-19 (20)	KD-18 (18)	KE-61 (4)	NE-5L (56)
Hupmobile S.....(1930)	K-232	KA-176	KB-58	KC-34	KD-34	KE-131	NE-5L
Hupmobile C.....(1930)	K-233	KA-176	KB 58	KC-19	KD-18	KE-132	NE-2R
Hupmobile H, U.....(1930)	K-233	KA-178	KB-58	KC-19	KD-18	KE-132	NE-2R
Jewett 6-50.....(1925)	K-114 (2)	KA-93 (4)	KB-39 (2)	KC-3 (63)	KC-3 (63)	KE-62 (2)	NE-5L (56)
Jewett 6-55.....(1926)	K-115 (1)	KA-93 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-63 (2)	NE-5L (56)
Jordan A.....(1925)	K-116 (3)	KA-94 (3)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-64 (3)	NE-2R (226)
Jordan A.....(1926)	K-116 (3)	KA-94 (3)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-64 (3)	NE-2R (226)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column. (New numbers added in this issue have no count in italics.)

Digitized by Google

GENERATOR PARTS—Continued

Car Make and Model	Generator Assembly	Armature	Field Coils	Main Brushes	Third Brush	Drive Gear or Sprocket	Starting Motor Drive Spring (Bendix Type)
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column							
Jordan J.....(1926)	K-117 (1)	KA-95 (4)	KB-36 (17)	KC-26 (10)	KD-25 (10)	KE-29 (5)	NE-2R (226)
Jordan AA.....(1927)	K-116 (3)	KA-94 (3)	KB-36 (17)	KE-26 (10)	KD-25 (10)	KE-64 (3)	NE-2R (226)
Jordan J.....(1927)	K-118 (3)	KA-95 (4)	KB-36 (17)	KC-19 (20)	KD-18 (18)	KE-29 (5)	NE-2R (226)
Jordan R.....(1927-28)	K-119 (3)	KA-96 (3)	KB-1 (63)	KC-19 (20)	KD-18 (18)	KE-65 (1)	NE-4L (48)
Jordan JJ.....(1928)	K-118 (3)	KA-95 (4)	KB-36 (17)	KC-19 (20)	KC-18 (1)	KE-29 (5)	NE-2R (226)
Jordan JE.....(1928-29)	K-118 (3)	KA-95 (4)	KB-36 (17)	KC-19 (20)	KD-18 (18)	KE-30 (2)	NE-2R (226)
Jordan E.....(1929)	K-120 (3)	KA-97 (3)	KB-37 (10)	KC-19 (20)	KD-18 (18)	KE-66 (2)	NE-2R (226)
Jordan G.....(1929)	K-121 (1)	KA-166 (1)	KB-37 (10)	KC-19 (20)	KD-18 (18)	KE-66 (2)	NE-2R (226)
Jordan 80.....(1930)	K-120	KA-97	KB-37	KC-34	KD-31	KE-84	NE-2R
Jordan 90.....(1930)	K-121	KA-166	KB-37	KC-34	KD-31	KE-84	NE-2R
Kissel 6-55.....(1925)	K-122 (1)	KA-167 (1)	KB-3 (33)	KC-4 (109)	KC-4 (109)	KE-67 (3)	NE-2R (226)
Kissel 8-75.....(1925)	K-5 (9)	KA-4 (12)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-68 (3)	NE-2R (226)
Kissel 6-55.....(1926)	K-123 (2)	KA-168 (2)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-67 (3)	NE-2R (226)
Kissel 8-75.....(1926)	K-5 (9)	KA-4 (12)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-68 (3)	NE-2R (226)
Kissel 6-55.....(1927)	K-123 (2)	KA-168 (2)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-67 (3)	NE-2R (226)
Kissel 8-65.....(1927)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Kissel 8-75.....(1927)	K-124 (3)	KA-98 (3)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-68 (3)	NE-2R (226)
Kissel 6-70.....(1928)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Kissel 8-80.....(1928)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Kissel 8-80S.....(1928)	K-12 (16)	KA-9 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Kissel 8-90.....(1928)	K-124 (3)	KA-98 (3)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Kissel 6-73.....(1929)	K-14 (8)	KA-9 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Kissel 8-95.....(1929)	K-14 (8)	KA-9 (23)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Kissel 8-126.....(1929)	K-124 (3)	KA-98 (3)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-6 (21)	NE-2R (226)
Kissel 6-73.....(1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Kissel 8-95.....(1930)	K-14	KA-9	KB-4	KC-4	KC-4	None	NE-2R
Kissel 8-126.....(1930)	K-124	KA-98	KB-4	KC-4	KC-4	KE-6	NE-2R
La Salle 303.....(1927)	K-125 (1)	KA-19 (5)	KB-9 (48)	KD-4 (6)	KD-4 (47)	KE-18 (4)	None
La Salle 303.....(1928)	K-27 (4)	KA-19 (5)	KB-9 (48)	KD-4 (6)	KD-4 (47)	KE-19 (8)	None
La Salle 328.....(1929)	K-27 (4)	KA-19 (5)	KB-9 (48)	KD-4 (6)	KD-4 (47)	KE-19 (8)	None
La Salle 340.....(1930)	K-139	KA-19	KB-9	KC-5	KD-4	KE-19	None
Lexington Concord.....(1925)	K-179 (1)	KA-170 (3)	KB-4 (113)	KC-8 (23)	KD-7 (22)	KE-70 (1)	NE-2R (226)
Lexington Minute Man.....(1925)	K-178 (2)	KA-170 (3)	KB-4 (113)	KC-8 (23)	KD-7 (22)	KE-69 (2)	NE-2R (226)
Lexington Minute Man 6-50.....(1926)	K-178 (2)	KA-170 (3)	KB-4 (113)	KC-8 (23)	KD-7 (22)	KE-69 (2)	NE-2R (226)
Lincoln 8.....(1925)	K-126 (5)	KA-99 (5)	KB-32 (6)	KC-27 (7)	KD-8 (15)	KE-71 (5)	None
Lincoln 8.....(1926)	K-126 (5)	KA-99 (5)	KB-32 (6)	KC-27 (7)	KD-8 (15)	KE-71 (5)	None
Lincoln 8.....(1927)	K-126 (5)	KA-99 (5)	KB-32 (6)	KC-27 (7)	KD-8 (15)	KE-71 (5)	None
Lincoln 8.....(1928)	K-126 (5)	KA-99 (5)	KB-32 (6)	KC-27 (7)	KD-8 (15)	KE-71 (5)	None
Lincoln 8.....(1929)	K-126 (5)	KA-99 (5)	KB-32 (6)	KC-27 (7)	KD-8 (15)	KE-71 (5)	None
Lincoln 8.....(1930)	K-126	KA-99	KB-32	KC-36	KD-33	KE-71	None
Locomobile Jr. 6.....(1925)	K-129 (1)	KA-101 (1)	KB-33 (6)	KC-20 (24)	KD-19 (17)	KE-72 (1)	NE-5L (56)
Locomobile Jr. 8.....(1925)	K-127 (2)	KA-100 (2)	KB-33 (6)	KC-20 (24)	KD-19 (17)	KE-73 (2)	NE-5L (56)
Locomobile 48.....(1925)	K-128 (5)	KA-102 (5)	KB-34 (7)	KC-28 (5)	KD-26 (6)	KE-74 (5)	None
Locomobile 48.....(1926)	K-128 (5)	KA-102 (5)	KB-34 (7)	KC-28 (5)	KD-26 (6)	KE-74 (5)	None
Locomobile 90.....(1926)	K-130 (4)	KA-103 (4)	KB-35 (6)	KC-20 (24)	KD-19 (17)	KE-75 (4)	None
Locomobile Jr. 8.....(1926)	K-127 (2)	KA-100 (2)	KB-33 (6)	KC-20 (24)	KD-19 (17)	KE-73 (2)	NE-5L (56)
Locomobile 48.....(1927)	K-128 (5)	KA-102 (5)	KB-34 (7)	KC-28 (5)	KD-26 (6)	KE-74 (5)	None
Locomobile 8-66.....(1927)	K-131 (2)	KA-23 (2)	KB-35 (6)	KC-20 (24)	KD-19 (17)	KE-76 (1)	NE-5L (56)
Locomobile 8-80.....(1927)	K-132 (4)	KA-105 (4)	KB-36 (17)	KC-20 (24)	KD-19 (17)	KE-77 (4)	NE-2R (226)
Locomobile 90.....(1927)	K-130 (4)	KA-103 (4)	KB-35 (6)	KC-20 (24)	KC-19 (7)	KE-75 (4)	None
Locomobile 48.....(1928)	K-128 (5)	KA-102 (5)	KB-34 (7)	KC-28 (5)	KD-26 (6)	KE-74 (5)	None
Locomobile 8-70.....(1928)	K-131 (2)	KA-104 (2)	KB-6 (40)	KC-4 (109)	KC-4 (109)	KE-29 (5)	NE-2R (226)
Locomobile 8-80.....(1928)	K-132 (4)	KA-105 (4)	KB-36 (17)	KC-20 (24)	KC-19 (7)	KE-77 (4)	NE-2R (226)
Locomobile 90.....(1928)	K-130 (4)	KA-103 (4)	KB-35 (6)	KC-20 (24)	KC-19 (7)	KE-75 (4)	None
Locomobile 48.....(1929)	K-128 (5)	KA-102 (5)	KB-34 (7)	KC-28 (5)	KD-26 (6)	KE-74 (5)	None
Locomobile 8-80.....(1929)	K-132 (4)	KA-105 (4)	KB-36 (17)	KC-20 (24)	KC-19 (7)	KE-77 (4)	NE-2R (226)
Locomobile 88.....(1929)	K-132 (4)	KA-105 (4)	KB-36 (17)	KC-20 (24)	KC-19 (7)	KE-77 (4)	NE-2R (226)
Locomobile 90.....(1929)	K-130 (4)	KA-103 (4)	KB-35 (6)	KC-20 (24)	KC-19 (7)	KE-75 (4)	None
Marquette.....(1929)	K-166 (3)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Marmon 74.....(1925)	K-133 (1)	KA-106 (4)	KB-40 (1)	KC-5 (43)	KD-4 (47)	KE-78 (2)	None
Marmon 74.....(1926)	K-134 (3)	KA-106 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-78 (2)	None
Marmon Little.....(1927)	K-135 (3)	KA-107 (3)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Marmon E75.....(1927)	K-134 (3)	KA-106 (4)	KB-9 (48)	KC-4 (109)	KC-4 (109)	KE-79 (2)	None
Marmon 68.....(1928)	K-136 (3)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Marmon E75.....(1928)	K-134 (3)	KA-106 (4)	KB-9 (48)	KC-4 (109)	KC-4 (109)	KE-79 (2)	None
Marmon 78.....(1928)	K-135 (3)	KA-107 (3)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Marmon 68.....(1929)	K-136 (3)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Marmon 78.....(1929)	K-135 (3)	KA-107 (3)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Marmon, Roosevelt.....(1929)	K-136 (3)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-4L (48)
Marmon Roosevelt.....(1930)	K-136	KA-26	KB-4	KC-4	KC-4	None	NE-1R
Marmon 8-69.....(1930)	K-136	KA-26	KB-4	KC-4	KC-4	None	NE-1R
Marmon 8-79.....(1930)	K-135	KA-107	KB-4	KC-4	KC-4	None	NE-2R
Marmon Big 8.....(1930)	K-135	KA-107	KB-4	KC-4	KC-4	None	NE-2R
Maxwell 25.....(1925)	K-38 (2)	KA-28 (2)	KB-13 (3)	KC-3 (63)	KC-3 (63)	None	NE-2R (226)
Moon Series A.....(1925)	K-137 (2)	KA-109 (2)	KB-9 (48)	KC-13 (8)	KD-12 (8)	KE-81 (4)	NE-2R (226)
Moon Series A.....(1926)	K-137 (2) K-138 (1)	KA-109 (2) KA-110 (3)	KB-9 (48)	KC-13 (8)	KD-12 (8)	KE-81 (4)	NE-2R (226)
Moon Series A.....(1927)	K-137 (2)	KA-110 (3)	KB-9 (48)	KC-13 (8)	KD-12 (8)	KE-81 (4)	NE-2R (226)
Moon 6-60.....(1927)	K-140 (2)	KA-8 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-82 (2)	NE-2R (226)
Moon Series A.....(1928)	K-137 (2)	KA-110 (3)	KB-9 (48)	KC-13 (8)	KD-12 (8)	KE-81 (4)	NE-2R (226)
Moon 6-60.....(1928)	K-140 (2)	KA-8 (4)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-82 (2)	NE-2R (226)
Moon 6-72.....(1928)	K-141 (2)	KA-111 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-83 (3)	NE-2R (226)
Moon 8-80.....(1928-29)	K-203 (1)	KA-43 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-84 (1)	NE-2R (226)
Moon 6-72.....(1929)	K-141 (2)	KA-111 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-83 (3)	NE-2R (226)
Nash Adv. 6.....(1925)	K-142 (3)	KA-112 (1)	KB-9 (48)	KC-5 (43)	KD-4 (47)	None	None
Nash Spec. 6.....(1925)	K-143 (2)	KA-113 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	None	None
Nash Adv. 6.....(1926)	K-142 (3)	KA-171 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	None	None
Nash Spec. 6.....(1926)	K-143 (2)	KA-113 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	None	None
Nash Adv. 6.....(1927)	K-142 (3)	KA-171 (2)	KB-9 (48)	KC-11 (7)	KD-10 (8)	None	None
Nash Spec. 6.....(1927)	K-144 (1)	KA-114 (2)	KB-9 (48)	KC-11 (7)	KD-10 (8)	None	None
Nash Light 6.....(1927)	K-146 (1)	KA-1 (2)	KB-1 (63)	KC-1 (52)	KD-1 (50)	None	NE-5L (56)
Nash Adv. 6.....(1928)	K-147 (1)	KA-116 (1)	KB-9 (48)	KC-5 (43)	KD-4 (47)	None	None
Nash Spec. 6.....(1928)	K-148 (1)	KA-114 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Nash Std. 6.....(1928)	K-151 (1)	KA-115 (2)	KB-1 (63)	KC-18 (28)	KD-17 (26)	None	NE-5L (56)
Nash Adv. 6.....(1929)	K-149 (1)	KA-117 (1)	KB-41 (9)	KC-18 (28)	KC-17 (2)	None	None
Nash Spec. 6.....(1929)	K-150 (1)	KA-118 (1)	KB-41 (9)	KC-18 (28)	KC-17 (2)	None	None
Nash Std. 6.....(1929)	K-206 (1)	KA-115 (2)	KB-1 (63)	KC-18 (28)	KD-17 (26)	None	NE-5L (56)
Nash Single Ig. 6.....(1930)	K-206	KA-115	KB-49	KC-34	KD-31	None	NE-5L
Nash Twin Ig. 6.....(1930)	K-234	KA-179	KB-50	KC-34	KD-31	None	NE-2R
Nash Twin Ig. 8.....(1930)	K-235	KA-180	KB-50	KC-34	KD-31	None	NE-2R
Oakland 6-54.....(1925)	K-152 (2)	KA-119 (2)	KB-3 (33)	KC-3 (63)	KC-3 (63)	KE-86 (3)	NE-2R (226)
Oakland O6.....(1926)	K-152 (2) K-153 (2)	KA-119 (2) KA-32 (5)	KB-3 (33) KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-86 (3)	NE-2R (226)
Oakland GO6.....(1927)	K-153 (2)	KA-32 (5)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-86 (3)	NE-1R (18)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column. (New numbers added in this issue have no count in italics.)

Digitized by Google

GENERATOR PARTS—Continued

Car Make and Model	Generator Assembly	Armature	Field Coils	Main Brushes	Third Brush	Drive Gear or Sprocket	Starting Motor Drive Spring (Bendix Type)
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column							
Oakland AA6.....(1928)	K-154 (2)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Oakland AA6.....(1929)	K-154 (2)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Oakland 8.....(1930)	K-236	KA-181	KB-51	KC-4	KC-4	None	None
Oldsmobile C.....(1925)	K-155 (1)	KA-120 (2)	KB-9 (48)	KC-11 (7)	KD-10 (8)	KE-87 (1)	NE-2R (226)
Oldsmobile D.....(1926)	K-156 (2)	KA-120 (2)	KB-6 (40)	KC-13 (8)	KD-12 (8)	KE-88 (4)	†NE-2R (226)
Oldsmobile E.....(1927)	K-157 (1)	KA-172 (1)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-88 (4)	NE-15 (1)
Oldsmobile F28.....(1928)	K-158 (2)	KA-173 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-88 (4)	None
Oldsmobile F29.....(1929)	K-158 (2)	KA-173 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-88 (4)	None
Oldsmobile F30.....(1930)	K-158	KA-173	KB-4	KC-4	KC-4	KE-88	None
Overland 91.....(1925)	K-145 (1)	KA-121 (6)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-89 (2)	NE-4L (48)
Overland 93.....(1925)	K-159 (2)	KA-121 (6)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-90 (2)	NE-4L (48)
Overland 91.....(1926)	K-160 (2)	KA-122 (2)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-89 (2)	NE-4L (48)
Overland 93.....(1926)	K-159 (2)	KA-121 (6)	KB-1 (63)	KC-1 (52)	KD-1 (50)	KE-90 (2)	NE-4L (48)
Packard 6 cyl., 326, 333.....(1925)	K-164 (7)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 8 cyl., 236, 243.....(1925)	K-165 (2)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 6 cyl., 326, 333.....(1926)	K-164 (7)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 8 cyl., 236, 243.....(1926)	K-165 (2)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 6 cyl., 426, 433.....(1927)	K-164 (7)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 8 cyl., 336, 343.....(1927)	K-164 (7)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 526.....(1928)	K-164 (7)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-23 (6)	KE-93 (12)	NE-2R (226)
Packard Std. 8-443.....(1928)	K-164 (7)	KA-73 (6)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 533.....(1928)	K-164 (7)	KA-73 (11)	KB-30 (12)	KC-23 (12)	KD-22 (12)	KE-93 (12)	NE-2R (226)
Packard 626.....(1929)	K-167 (3)	KA-73 (6)	KB-31 (6)	KC-24 (5)	KD-23 (6)	KE-93 (12)	NE-2R (226)
Packard 633.....(1929)	K-167 (3)	KA-73 (6)	KB-31 (6)	KC-24 (5)	KD-23 (6)	KE-93 (12)	NE-2R (226)
Packard 640, 645.....(1929)	K-167 (3)	KA-73 (6)	KB-31 (6)	KC-24 (5)	KD-23 (6)	KE-93 (12)	NE-2R (226)
Packard 726.....(1930)	K-167	KA-73	KB-31	KC-24	KD-23	KE-93	NE-2R
Packard 733.....(1930)	K-167	KA-73	KB-31	KC-24	KD-23	KE-93	NE-2R
Packard 740.....(1930)	K-167	KA-73	KB-31	KC-24	KD-23	KE-93	NE-2R
Packard 745.....(1930)	K-167	KA-73	KB-31	KC-24	KD-23	KE-93	NE-2R
Paige 6-70.....(1925-26)	K-114 (2)	KA-93 (4)	KB-39 (2)	KC-3 (63)	KC-3 (63)	KE-94 (4)	NE-2R (226)
Paige 6-72.....(1926)	K-222 (1)	KA-93 (4)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-94 (4)	NE-5L (56)
Paige 6-45.....(1927-28)	K-168 (1)	KA-126 (1)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-63 (2)	NE-5L (56)
Paige 6-65.....(1927-28)	K-169 (2)	KA-127 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-94 (4)	NE-5L (56)
Paige 6-75.....(1927-28)	K-169 (2)	KA-127 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-94 (4)	NE-5L (56)
Paige 8-85.....(1927-28)	K-170 (1)	KA-128 (1)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-6 (21)	NE-2R (226)
Peerless 70.....(1925)	K-171 (2)	KA-129 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-95 (1)	NE-2R (226)
Peerless 80.....(1926)	K-172 (2)	KA-68 (4)	KB-41 (9)	KC-19 (20)	KD-18 (18)	KE-96 (4)	NE-2R (226)
Peerless 69.....(1926)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-97 (2)	NE-2R (226)
Peerless 60.....(1927)	K-119 (3)	KA-96 (3)	KB-41 (9)	KC-1 (52)	KD-1 (50)	KE-98 (2)	NE-2R (226)
Peerless 69.....(1927)	K-53 (9)	KA-41 (9)	KB-12 (9)	KC-5 (43)	KD-4 (47)	KE-97 (2)	NE-2R (226)
Peerless 80.....(1927)	K-172 (2)	KA-68 (4)	KB-41 (9)	KC-19 (20)	KD-18 (18)	KE-96 (4)	NE-2R (226)
Peerless 72.....(1927-28)	K-171 (2)	KA-129 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-99 (1)	NE-2R (226)
Peerless 60.....(1928)	K-119 (3)	KA-96 (3)	KB-41 (9)	KC-1 (52)	KD-1 (50)	KE-98 (2)	NE-2R (226)
Peerless 80.....(1928)	K-120 (3)	KA-97 (3)	KB-41 (9)	KC-19 (20)	KD-18 (18)	KE-96 (4)	NE-2R (226)
Peerless 91.....(1928)	K-45 (3)	KA-33 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-100 (1)	NE-2R (226)
Peerless 61.....(1929)	K-141	KA-131 (1)	KB-41 (9)	KC-18 (28)	KD-17 (26)	KE-83 (3)	NE-2R (226)
Peerless 81.....(1929)	K-120 (3)	KA-97 (3)	KB-41 (9)	KC-19 (20)	KD-18 (18)	KE-96 (4)	NE-2R (226)
Peerless 91.....(1929)	K-174 (1)	KA-33 (1)	KB-42 (9)	KC-1 (52)	KD-1 (50)	KE-101 (1)	NE-2R (226)
Peerless 125.....(1929)	K-223 (1)	KA-174 (1)	KB-47 (1)	KC-35 (1)	KD-36 (1)	KE-37 (5)	NE-2R (226)
Peerless 61A.....(1930)	K-141	KA-131	KB-4	KC-18	KD-17	KE-83	NE-2R
Peerless Std. 8.....(1930)	K-245 / K-246	KA-62	KB-59	KC-38	KD-36	KE-84	NE-2R
Peerless Master 8.....(1930)	K-247	K-185	KB-60	KC-38	KD-36	KE-37	NE-2R
Peerless Custom 8.....(1930)	K-247	K-185	KB-60	KC-38	KD-36	KE-37	NE-2R
Pierce Arrow 80.....(1925)	K-175 (4)	KA-134 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-102 (3)	None
Pierce Arrow 33.....(1926)	K-176 (1)	KA-135 (1)	KB-9 (48)	KC-6 (9)	KD-8 (16)	KE-103 (1)	None
Pierce Arrow 80.....(1926)	K-175 (4)	KA-134 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-102 (3)	None
Pierce Arrow 36.....(1927)	K-177 (3)	KA-136 (3)	KB-43 (3)	KC-19 (20)	KD-18 (18)	KE-104 (2)	None
Pierce Arrow 80.....(1927)	K-175 (4)	KA-134 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-102 (3)	None
Pierce Arrow 36.....(1928)	K-177 (3)	KA-136 (3)	KB-43 (3)	KC-19 (20)	KD-18 (18)	KE-104 (2)	None
Pierce Arrow 81.....(1928)	K-175 (4)	KA-134 (4)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-105 (1)	None
Pierce Arrow 133, 143.....(1929)	K-177 (3)	KA-182 (3)	KB-43 (3)	KC-4 (109)	KC-4 (109)	KE-106 (1)	None
Pierce Arrow 132 C.....(1930)	K-237	KA-182	KB-55	KC-4	KC-4	None	None
Pierce Arrow 125, 139 B.....(1930)	K-238	KA-183	KB-55	KD-4	KD-4	None	None
Plymouth 4.....(1929)	K-43 (3)	KA-31 (3)	KB-14 (3)	KC-4 (109)	KC-4 (109)	None	NE-2R (226)
Plymouth.....(1930)	K-43	KA-31	KB-14	KC-4	KC-4	None	None
Pontiac 6.....(1926)	K-35 (6)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Pontiac 6.....(1927)	K-35 (6)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-1R (18)
Pontiac 6.....(1928)	K-35 (6)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-4L (48)
Pontiac Big 6.....(1929)	K-36 (2)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	NE-4L (48)
Pontiac.....(1930)	K-36	KA-26	KB-4	KC-4	KC-4	None	None
Reo T6.....(1925)	K-180 (1)	KA-138 (2)	KB-44 (2)	KC-29 (2)	KD-27 (2)	KE-107 (2)	None
Reo T6.....(1926-27)	K-224 (1)	KA-138 (2)	KB-44 (2)	KC-29 (2)	KD-27 (2)	KE-107 (2)	None
Reo Flying Cloud.....(1927)	K-181 (2)	KA-7 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-108 (3)	None
Reo Wolverine.....(1927)	K-182 (2)	KA-47 (6)	KB-23 (11)	KC-12 (16)	KD-11 (14)	KE-109 (3)	NE-2R (226)
Reo Flying Cloud.....(1928)	K-181 (2)	KA-7 (23)	KB-4 (113)	KC-3 (63)	KC-3 (63)	KE-108 (3)	None
Reo Wolverine.....(1928)	K-182 (2)	KA-47 (6)	KB-23 (11)	KC-12 (16)	KD-11 (14)	KE-109 (3)	NE-2R (226)
Reo Flying Cloud Master.....(1929)	K-183 (1)	KA-33 (6)	KB-4 (113)	KC-12 (16)	KD-11 (14)	KE-108 (3)	None
Reo Flying Cloud Mate.....(1929)	K-184 (1)	KA-33 (6)	KB-4 (113)	KC-12 (16)	KD-11 (14)	KE-109 (3)	None
Reo 15.....(1930)	K-183	KA-33	KB-4	KC-12	KD-11	KE-109	None
Reo 20.....(1930)	K-184	KA-33	KB-4	KC-12	KD-11	KE-108	None
Reo 25.....(1930)	K-184	KA-33	KB-4	KC-12	KD-11	KE-108	None
Rickenbacker A8.....(1925)	K-186 (2)	KA-140 (2)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-110 (4)	None
Rickenbacker D6.....(1925)	K-186 (2)	KA-140 (2)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-111 (3)	None
Rickenbacker 8-B.....(1926)	K-187 (5)	KA-141 (5)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-110 (4)	None
Rickenbacker 6-E.....(1926)	K-187 (5)	KA-141 (5)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-111 (3)	None
Rickenbacker 6-70.....(1927)	K-187 (5)	KA-141 (5)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-111 (3)	None
Rickenbacker 8-80.....(1927)	K-187 (5)	KA-141 (5)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-110 (4)	None
Rickenbacker 8-90.....(1927)	K-187 (5)	KA-141 (5)	KB-6 (40)	KC-8 (23)	KD-7 (22)	KE-110 (4)	None
Roamer 4-75E.....(1925)	K-188 (2)	KA-142 (4)	KB-1 (63)	KC-1 (52)	KC-1 (2)	KE-112 (2)	NE-3R (5)
Roamer 6-54E.....(1925)	K-189 (3)	KA-142 (4)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-113 (2)	NE-16 (1)
Roamer 6-50.....(1925-26)	K-189 (3)	KA-143 (1)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-1 (7)	NE-1R (18)
Roamer 8-88.....(1925-26-27)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-45 (4)	NE-2R (226)
Roamer 4-75E.....(1926)	K-188 (2)	KA-142 (4)	KB-1 (63)	KC-1 (52)	KC-1 (2)	KE-112 (2)	NE-3R (5)
Roamer 6-54E.....(1926)	K-189 (3)	KA-142 (4)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-113 (2)	NE-17 (1)
Roamer 8-80.....(1926)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-6 (21)	NE-2R (226)
Roamer 8-80.....(1927)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-6 (21)	NE-2R (226)
Roamer 8-78.....(1927)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-9 (7)	NE-2R (226)
Roamer 8-78.....(1928)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-9 (7)	NE-2R (226)
Roamer 8-80.....(1928)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-6 (21)	NE-2R (226)
Roamer 8-88.....(1928)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-45 (4)	NE-2R (226)
Roamer 8-78.....(1929)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-9 (7)	NE-2R (226)
Roamer 8-80.....(1929)	K-190 (10)	KA-144 (10)	KB-1 (63)	KC-18 (28)	KD-17 (26)	KE-6 (21)	NE-2R (226)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column. (New numbers added in this issue have no count in italics.)

Digitized by Google

GENERATOR PARTS—Continued

Car Make and Model	Generator Assembly	Armature	Field Coils	Main Brushes	Third Brush	Drive Gear or Sprocket	Starting Motor Drive Spring (Bendix Type)
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column							
Roamer 8-88 (1929)	K-190 (10)	KA-144 (10)	KB-1 (65)	KC-18 (28)	KD-17 (26)	KE-45 (4)	NE-2R (226)
Roamer 8-78 (1930)	K-190	KA-144	KB-1	KC-18	KD-17	KE-9	NE-2R
Roamer 8-80 (1930)	K-190	KA-144	KB-1	KC-18	KD-17	KE-6	NE-2R
Roamer 8-88 (1930)	K-190	KA-144	KB-1	KC-18	KD-17	KE-45	NE-2R
Star F (1925)	K-72 (5)	KA-57 (7)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-40 (5)	NE-4L (48)
Star M (1926)	K-72 (5)	KA-57 (7)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-40 (5)	NE-4L (48)
Star R (1926)	K-191 (2)	KA-57 (7)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-39 (4)	NE-4L (48)
Star M (1927-28)	K-72 (5)	KA-57 (7)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-40 (5)	NE-4L (48)
Star R (1927-28)	K-191 (2)	KA-57 (7)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-39 (4)	NE-4L (48)
Stearns Knight B (1925)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-114 (3)	NE-18 (1)
Stearns Knight C (1925)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-115 (3)	NE-7L (4)
Stearns Knight S (1925)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-115 (3)	NE-3R (6)
Stearns Knight B (1926)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-114 (3)	NE-19 (1)
Stearns Knight C75 (1926)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-114 (2)	NE-7L (4)
Stearns Knight S95 (1926)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-115 (3)	NE-3R (6)
Stearns Knight F6-85 (1927)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-116 (1)	NE-7L (4)
Stearns Knight 8-85 (1927-28)	K-193 (3)	KA-146 (3)	KB-27 (15)	KC-20 (24)	KD-19 (17)	KE-117 (3)	NE-5L (56)
Stearns Knight F6-85 (1928)	K-192 (8)	KA-145 (8)	KB-42 (9)	KC-20 (24)	KD-19 (17)	KE-117 (3)	NE-7L (4)
Stearns Knight H & J 8-90 (1928-29)	K-193 (3)	KA-146 (3)	KB-27 (15)	KC-20 (24)	KD-19 (17)	KE-118 (1)	NE-5L (56)
Stearns Knight M & N 6-80 (1928-29)	K-193 (3)	KA-146 (3)	KB-27 (15)	KC-20 (24)	KD-19 (17)	KE-117.(3)	NE-2R (226)
Studebaker Big 6 (1925)	K-195 (7)	KA-148 (7)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Spec. 6 (1925)	K-195 (7)	KA-148 (7)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Std. 6 (1925)	K-196 (2)	KA-149 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-121 (4)	NE-2R (226)
Studebaker Big 6 (1926)	K-195 (7)	KA-148 (7)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Spec. 6 (1926)	K-195 (7)	KA-148 (7)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Std. 6 (1926-27)	K-196 (2)	KA-149 (2)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-121 (4)	NE-2R 226)
Studebaker Big 6 (1927)	K-195 (7)	KA-148 (7)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Spec. 6 (1927)	K-195 (7)	KA-148 (7)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Com. 6 (1928)	K-195 (7)	KA-148 (7)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Dic. 6 (1928)	K-198 (2)	KA-151 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-121 (4)	NE-2R (226)
Studebaker Pres. 8 (1928)	K-197 (4)	KA-151 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Studebaker Dic. 6 (1929)	K-198 (2)	KA-151 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-121 (4)	NE-2R (226)
Studebaker Com. 6 (1929-30)	K-197 (4)	KA-151 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	KE-120 (8)	None
Studebaker Com. 8 (1929-30)	K-197 (4)	KA-151 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Studebaker Pres. (1929-30)	K-197 (4)	KA-151 (6)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Studebaker Dict. 6 (1930)	K-219	KA-151	KB-4	KC-4	KC-4	KE-121	None
Studebaker Dict. 8 (1930)	K-239	KA-151	KB-4	KC-4	KC-4	None	None NE-2R
Studebaker Comm. 6 (1930)	K-198	KA-151	KB-4	KC-4	KC-4	KE-120	None
Studebaker Comm. 8 (1930)	K-197	KA-151	KB-4	KC-4	KC-4	None	None NE-2R
Studebaker 6-53 (1930)	K-219	KA-151	KB-4	KC-4	KC-4	KE-121	NE-2R
Studebaker Pres. (1930)	K-197	KA-151	KB-4	KC-4	KC-4	None	None
Stutz 695 (1925)	K-199 (1)	KA-3 (12)	KB-3 (55)	KC-3 65)	KC-3 (65)	KE-122 (1)	NE-2R (226)
Stutz AA (1926)	K-200 (1)	KA-152 (1)	KB-9 (48)	KC-13 (8)	KD-12 (8)	KE-123 (4)	None
Stutz AA (1927)	K-201 (1)	KA-11 (2)	KB-9 (48)	KC-11 (7)	KD-10 (8)	KE-123 (4)	None
Stutz BB (1928)	K-202 (2)	KA-154 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-123 (4)	None
Stutz M (1929)	K-202 (2)	KA-154 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-123 (4)	None
Stutz Series M (1930)	K-202	KA-154	KB-9	KC-5	KD-4	KE-123	None
Velie 60 (1925)	K-204 (1)	KA-3 (12)	KB-3 (55)	KC-3 (65)	KC-3 (65)	KE-3 (6)	NE-2R (226)
Velie 60 (1926)	K-205 (2)	KA-155 (2)	KB-4 (113)	KC-3 (65)	KC-3 (65)	KE-3 (6)	NE-2R (226)
Velie Std. 50 (1927)	K-226 (3)	KA-156 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-3 (6)	NE-2R (226)
Velie Spec. 60 (1927-28)	K-205 (2)	KA-155 (2)	KB-3 (55)	KC-3 (65)	KC-3 (65)	KE-124 (1)	NE-2R (226)
Velie Std. 50 (1928)	K-226 (3)	KA-156 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-3 (6)	NE-2R (226)
Velie 6-66 (1928)	K-207 (1)	KA-156 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-125 (1)	NE-2R (226)
Velie 6-77 (1928)	K-226 (3)	KA-156 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-126 (1)	NE-2R (226)
Velie 8-88 (1928)	K-9 (10)	KA-7 (23)	KB-3 (55)	KC-3 (65)	KC-3 (65)	KE-6 (21)	NE-2R (226)
Viking (1929)	K-217 (1)	KA-26 (17)	KB-4 (113)	KC-4 (109)	KC-4 (109)	None	None
Viking V30 (1930)	K-217	KA-26	KB-4	KC-4	KC-4	None	None
Westcott 44 (1925)	K-216 (2)	KA-163 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-2 (15)	NE-2R (226)
Westcott 60 (1925)	K-216 (2)	KA-163 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	KE-2 (15)	NE-2R (226)
Whippet 96, 4 cyl. (1927)	K-160 (2)	KA-122 (2)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-91 (6)	NE-4L (48)
Whippet 93-A, 6 cyl. (1927)	K-161 (2) K-162 (1)	KA-121 (5) KA-124 (2)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-91 (6)	NE-4L (48)
Whippet 96, 4 cyl. (1928)	K-220 (2) K-163 (1)	KA-123 (4) KA-124 (2)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-91 (6)	NE-4L (48)
Whippet 98, 6 cyl. (1928)	K-161 (2) K-166 (3)	KA-121 (5) KA-125 (2)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-91 (6) KE-92 (1)	NE-4L (48)
Whippet 96-A (1929)	K-163 (2)	KA-123 (4)	KB-1 (65)	KC-18 (28)	KD-17 (26)	KE-91 (6)	NE-4L (48)
Whippet 98-A (1929)	K-166 (3)	KA-125 (2)	KB-1 (65)	KC-18 (28)	KD-17 (26)	KE-91 (6)	NE-4L (48)
Whippet 96A (1930)	K-163	KA-123	KB-1	KC-18	KD-17	KE-91	NE-4L
Whippet 98A (1930)	K-166	KA-125	KB-1	KC-18	KD-17	KE-91	NE-4L
Wills Ste. Claire, 8 cyl. (1925)	K-212 (1)	KA-160 (1)	KB-9 (48)	KC-27 (7)	KD-8 (15)	None	None
Wills Ste. Claire, 6 cyl. (1925)	K-213 (2)	KA-161 (2)	KB-9 (48)	KC-5 (43)	KD-4 (47)	None	None
Wills Ste. Claire W6 (1926)	K-213 (2)	KA-161 (2)	KB-9 (48)	KC-5 (43)	KD-10 (8)	None	None
Wills Ste. Claire, 8 cyl. (1926)	K-212 (1)	KA-160 (1)	KB-9 (48)	KC-27 (7)	KD-8 (15)	None	None
Willys Knight 66 (1925)	K-208 (2)	KA-157 (2)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-127 (2)	NE-2R (226)
Willys Knight 65 (1925)	K-208 (2)	KA-157 (2)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-127 (2)	NE-2R (226)
Willys Knight 66 (1926)	K-209 (1) K-211 (2) K-221 (1)	KA-158 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-128 (4)	NE-2R (226)
Willys Knight 70 (1926)	K- (2)	KA-65 (5)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-129 (6)	NE-5L (56)
Willys Knight 66-A (1927)	K-211 (2)	KA-158 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-128 (4)	NE-2R (226)
Willys Knight 70-A (1927)	K-221 (2) K- (3)	KA-65 (5)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-129 (6)	NE-5L (56)
Willys Knight 70-A (1928)	K-83 (3)	KA-69 (5)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-129 (6)	NE-5L (56)
Willys Knight 66-A (1928)	K-211 (1) K-231 (2)	KA-158 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-128 (4)	NE-2R (226)
Willys Knight Std. 6-56 (1928)	K-83 (4)	KA-69 (4)	KB-1 (65)	KC-18 (28)	KD-17 (26)	KE-129 (6)	NE-5L (56)
Willys Knight Special 70A (1929)	K-83 (3) K-83 (4)	KA-69 (5) KA-69 (4)	KB-1 (65)	KC-18 (28)	KD-17 (26)	KE-129 (6)	NE-5L (56)
Willys Knight 66-B (1929)	K-231 (2)	KA-158 (4)	KB-1 (65)	KC-1 (52)	KD-1 (50)	KE-128 (4)	NE-2R (226)
Willys Knight 6-56 (1929)	K-83 (4)	KA-69 (4)	KB-1 (65)	KC-18 (28)	KD-17 (26)	KE-129 (6)	NE-5L (56)
Willys Knight 70-B (1929)	K-83 (4)	KA-69 (4)	KB-1 (65)	KC-18 (28)	KD-17 (26)	KE-130 (1)	NE-5L (56)
Willys Knight 70B (1930)	K-83	KA-69	KB-1	KC-34	KD-31	KE-130	NE-5L
Willys Knight 66B (1930)	K-231	KA-158	KB-1	KC-12	KD-11	KE-128	NE-5L
Willys Knight 87 (1930)	K-83	KA-69	KB-1	KC-34	KD-31	KE-128	NE-5L
Willys 6-98B (1930)	K-240	KA-125	KB-1	KC-34	KD-31	None	NE-2R

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column. (New numbers added in this issue have no count in italics.)

*Beginning with engine No. 23222.
†Spring NE-1R used beginning with engine No. 306444-K.
‡Beginning with engine No. L-1208-80.
§Spring NE-5L used after October, 1928.
‡Spring NE-1R used beginning with engine No. E-10700

Digitized by Google

BRAKE ASSEMBLIES

Section 1

Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

Only Bendix brakes are covered in the first section. Lockheed brakes are covered in the second section. Molded brake lining data by makes and car models are given in the third section. To find interchangeability of Bendix parts:

1. Locate in the first column of the Bendix table the car and model for which the part is needed.
2. Follow this line across to column pertaining to that part.
3. In this part column opposite your car model you will find the CHILTON NUMBER for the part you want. (The figure in parentheses tells you how many times you can find this CHILTON NUMBER in this column.)
4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from another local dealer.

Example: Suppose a Reinforcement Plate for a Bendix Brake is needed for an Erskine with Serial Number after 5021764. Locate this car in the first column. Follow across to the column on Reinforcement Plate, which is the sixth column. Here you see the CHILTON NUMBER for this part is DFA-5. The figure four (4) in parentheses means that this CHILTON NUMBER occurs four times in this column, indicating that three or more other car models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number DFA-5 opposite the Durant M and R, Essex 1927-28 and Studebaker Dictator 8, 1929. The Reinforcement Plate used in the brakes of all these cars is interchangeable with the one in your Erskine car.

Instructions for finding interchangeability of Lockhead brake parts in the second section are the same as above.

BENDIX BRAKE PARTS

Car Make and Model	Control Shaft and Carrier Bracket Assembly	Carrier Bracket	Operating Cam	Brake Shoes Less Lining	Reinforcement Plate	Eccentric Adjusting Cam	Articulating Pin	Primary and Auxiliary or Primary and Secondary Shoe Spring	Primary or Secondary Shoe Spring
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Cunningham, 8.....(1926-27-28) 16x2 Aluminum 3 Shoe	*DA-2-Lf.Fr. (1) *DA-3-Rg.Fr. (1) ‡DA-1-Fr. (1)	§DAA-1-Fr (6) ¶DAA-2 (11) DAA-3-Rr. (1)	*DAB-4 (3) ‖DAB-1-Fr. (10) †DAB-2-Fr. (6) DAB-3-Rr. (1)	DD-1-Pri. (2) DD-2-Sec. (1) DD-1-Aux. (2)	DFA-1-Lf. (3) DFA-2-Rg. (3)	DFB-1 (6)	DFC-1 (6)	DFD-1 (4)	DFE-1 (28)
* Used on 1926 cars. † Used on 1927 cars. ‡ Used on 1927-28 cars. § Used with Unflanged Cam. ¶ Used with Flanged Cam. ‖ Used with DAA-2 Bracket.									
Cunningham, 8.....(1929-30) 16x2½ Duo Servo 2 Shoe	.....	DAA-4 (2)	DAB-5 (2)	DD-3-Pri. (4) DD-3-Sec. (4)	DFA-3 (2)	DFB-2 (2)	.....	DFD-2 (5)	DFE-2 (2)
Durant, 6 (California)..... 11x1½ Standard 3 Shoe	.....	DAA-5 (10)	DAB-6 (5)	DD-4-Pri. (6) DD-5-Sec. (3) DD-4-Aux. (6)	DFA-4 (2)	DFB-3 (24)	DFC-2 (3)	DFD-3 (3)	DFE-3 (3)
Durant, M (4 Cyl.), R (6 Cyl.) Star... 11x1½ Super Servo 3 Shoe	.....	.....	DAB-7-Lf.Fr. (2) DAB-8-Rg.Fr. (2) DAB-9-Rr. (3)	DD-6-Pri. (4) DD-7-Sec. (3) DD-8-Aux. (3) * Used with Steel Shoes.	DFA-5 (4)	DFB-4 (7)	DFC-3 (7)	*DFC-4 (24)	DFE-4 (8)
Durant, 40, 60, 66.....(1929) 11x1½ Duo Servo 2 Shoe	.....	DAA-6 (5)	DAB-12 (15)	DD-12-Pri. (12) DD-12-Sec. (12)	DFA-7 (10)	DFB-5 (16)	.....	DFD-4 (24)	DFE-5 (10)
Durant, 70 Series 607.....(1929) 13x1¾ Duo Servo 2 Shoe	.....	DAA-7 (3)	DAB-12 (15)	DD-13-Pri. (4) DD-13-Sec. (4)	DFA-7 (10)	DFB-5 (16)	.....	DFD-4 (24)	DFE-5 (10)

Digitized by Google

Erskine 11x1½ Standard 3 Shoe			DAA-5-Fr. (10) DAA-8-Rr. (4)		DAB-6-Fr. (6) *DAB-15-Rr. (7)		DD-4-Pri. (6) DD-5-Sec. (3) DD-4-Aux. (6)		*DFA-8-Lf. (1) *DFA-9-Rg. (1)		DFB-3 (24)		*DFC-2 (3)		DFD-3 (3)		DFE-3 (3)	
* Used before car Serial 5021764.																					
Erskine 11x1½ Super Servo 3 Shoe					DAB-13-Lf. (2) DAB-14-Rg. (2)		DD-6-Pri. (4) DD-7-Sec. (3) DD-8-Aux. (3)		*DFA-5 (4)		DFB-4 (7)		*DFC-3 (7)		†DFD-4 (24)		DEE-4 (8)	
* Used after car Serial 5021764. † Used with Steel Shoes.																					
Erskine, 53 (1930) 12x1½ Duo Servo 2 Shoe					DAB-16 (12)		DD-14-Pri. (2) DD-14-Sec. (2)				DFB-5 (16)				DFD-4 (24)		DFE-6 (7)	
Cable and Conduit Control.																					
Essex (1927–28) 11x1½ Super Servo 3 Shoe					DAB-17-Lf. (1) DAB-9-Rg. (3)		DD-6-Pri. (4) DD-7-Sec. (3) DD-8-Aux. (3)		DFA-5 (4)		DFB-4 (7)		DFC-3 (7)		*DFD-4 (24)		DFE-4 (8)	
* Used with Steel Shoes.																					
Essex, Challenger (1929) 11x1½ Duo Servo 2 Shoe			DAA-6 (5)		DAB-16 (12)		DD-12-Pri. (12) DD-12-Sec. (12)		DFA-7 (10)		DFB-5 (16)				DFD-4 (24)		DFE-5 (10)	
Essex, Super 6 (1930) 11x1½ Duo Servo 2 Shoe			DAA-9 (2)		DAB-16 (12)		DD-12-Pri. (12) DD-12-Sec. (12)		DFA-7 (10)		DFB-5 (16)				DFD-4 (24)		DFE-5 (10)	
Falcon Knight 12x1¾ Standard 3 Shoe	DA-4-Rr. (6)		DAA-5 (10)		DAB-18-Fr. (3) DAB-6-Rr. (5)		DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20)		DFA-10 (9)		DFB-3 (24)		DFC-4 (21)		DFD-5 (12)		DFE-1 (28)	
Hudson, 6 (1926–27–28) 14x2 Standard 3 Shoe	DA-5-Fr. (1) DA-4-Rr. (6)		*DAA-2-Fr. (11) DAA-10-Rr. (7)		DAB-1-Fr. (10)		DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)		†DFA-11-Lf. (2) †DFA-12-Rg. (2) ‡DFA-13-Lf. (6) ‡DFA-14-Rg. (6)		DFB-3 (24)		DFC-4 (21)		DFD-6 (9)		DFE-1 (28)	
* Used with Flanged Cam. † Used on 1926 Cars. ‡ Used on 1927-28 Cars.																					
Hudson, 6 (Early 1929) 14x2 Duo Servo 2 Shoe			DAA-11 (4)		DAB-12 (13)		DD-19-Pri. (8) DD-19-Sec. (8)		DFA-15 (1)		DFB-6 (9)				DFD-7 (6)		DFE-7 (9)	
Hudson, 6 (Late 1929) 14x2 Duo Servo 2 Shoe			DAA-12 (1)		DAB-12 (13)		DD-19-Pri. (8) DD-19-Sec. (8)		DFA-16 (4)		DFB-6 (9)				DFD-7 (6)		DFE-7 (9)	
Hudson, 8 (1930) 12x1½ Duo Servo 2 Shoe			DAA-9 (2)		DAB-12 (13)		DD-20-Pri. (8) DD-20-Sec. (8)		DFA-7 (10)		DFB-5 (16)				DFD-4 (24)		DFE-5 (10)	
Hupmobile, 6 12x1¾ Standard 3 Shoe	DA-6 (1)		*DAA-1 (6) †DAA-2 (11)		DAB-2 (6) ‡DAB-1 (10) DAB-15-Rr. (7)		DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Pri. (20)		DFA-10 (9)		DFB-1 (6)		DFC-1 (6)		DFD-5 (12)		DFE-1 (28)	
* Used with Unflanged Cam. † Used with Flanged Cam. ‡ Used with DAA-2 Bracket and after car Serial 65000. Front Brakes only except Cam.																					
Jordan, U (1930) 12x1¾ Duo Servo 2 Shoe					DAB-16 (12)		DD-21-Pri. (4) DD-21-Sec. (4)				DFB-5 (16)				DFD-4 (24)		DFE-6 (7)	
Cable and Conduit Control.																					
Lincoln 16x2½ Standard 3 Shoe	DA-7-Lf.Fr. (1) DA-8-Rg.Fr. (1) DA-9-Lf.Rr. (1) DA-10-Rg.Rr (1) *DA-11-Lf.Rr. (1) *DA-12-Rg.Rr. (1)		DAA-13-Fr. (2) DAA-14-Rr. (1) †DAA-15-Lf.Rr. (1)		DAB-19-Lf.Fr.. (2) DAB-20-Rg.Fr. (2) DAB-21-Lf.Rr.. (2) DAB-22-Rg.Rr. (2) DAB-23-Lf.Rr.. (1) DAB-24-Rg.Rr. (1)		DD-22-Pri. (2) DD-23-Sec. (3) DD-23-Aux. (3)		†DFA-17-Rr. (1) †DFA-18-Rr. (1)		DFB-7 (7) †DFB-8-Fr. (1)		DFC-5 (2)		DFD-8 (2)		DFE-8 (2)	
* Used on 1928 Cars. † Used on 1929-30 Cars.																					
Locomobile, Junior 8 (1926) 12x1¾ Standard 3 Shoe	DA-13-Lf.Fr. (1) DA-14-Rg.Fr. (1) DA-15-Rr. (1)		*DAA-1-Fr. (6) †DAA-2-Fr. (11) DAA-16-Rr. (2)		DAB-2-Fr. (6) ‡DAB-1-Fr. (10) DAB-25-Rr. (1)		DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20)		DFA-19 (2)		DFB-1 (6)		§DFC-4 (21) ¶DFC-1 (6)		DFD-5 (12) DFD-9-Rr. (1)			
* Used with Unflanged Cam. † Used with Flanged Cam. ‡ Used with DAA-2 Bracket. § Used with Take-up Cam with groove in head. ¶ Used with Take-up Cam with plain head.																					
Locomobile, 33-90 (1925–26–27) 16x2 Standard 3 Shoe	*DA-18-Fr. (1) †DA-19-Lf.Fr. (1) †DA-20-Rg.Fr. (1)		‡DAA-1-Fr. (6) §DAA-2-Fr. (11) DAA-16-Rr. (2)		*DAB-2-Fr. (6) ¶DAB-1-Fr. (10) DAB-26-Rr. (1) †DAB-4-Fr. (3)		DD-24-Pri. (6) DD-25-Sec. (4) DD-24-Aux. (6)		DFA-1-Lf.Fr. (3) DFA-2-Rg.Fr. (3)		DFB-1 (6)		‖DFC-1 (6) **DFC-4 (21)		††DFD-1 (4) ‡‡DFD-10 (7)		DFE-1 (28)	
* Used on 1925 cars. † Used on 1926-27 cars. ‡ Used with Unflanged Cam. § Used with Flanged Cam. ¶ Used with DAA-2 Bracket. ‖ Used with Take-up Cam with plain head. ** Used with Take-up Cam with groove in head. †† Used with Aluminum Shoes. ‡‡ Used with Steel Shoes.																					

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts.
The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

BENDIX BRAKE PARTS—Continued

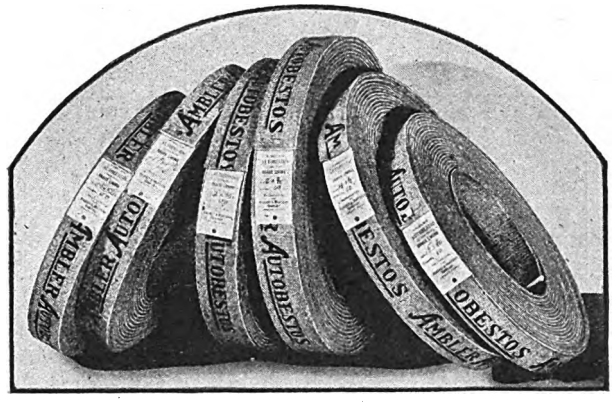
Car Make and Model	Control Shaft and Carrier Bracket Assembly	Carrier Bracket	Operating Cam	Brake Shoes Less Lining	Reinforcement Plate	Eccentric Adjusting Cam	Articulating Pin	Primary and Auxiliary or Primary and Secondary Shoe Spring	Primary or Secondary Shoe Spring
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Locomobile, 8-70.....(1928-29) 12x1¾ Standard 3 Shoe	DA-16-Fr. (1) DA-4-Rr. (6)	*DAA-17-Fr. (1) DAA-10-Rr. (7)	DAB-1-Fr. (10) DAB-15-Rr. (7)	DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20)	DFA-10 (9)	DFB-3 (24)	DFC-4 (21)	DFD-5 (12) DFD-6 (9)	DFE-1 (28)
			* Interchangeable with DAA-2 Bracket.						
Locomobile, 8-80.....(1927-28-29) 14x2 Standard 3 Shoe	DA-17-Fr. (1) DA-4-Rr. (6)	*DAA-2-Fr. (11) DAA-10-Rr. (7)	DAB-1-Fr. (10) DAB-15-Rr. (7)	DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)	DFA-13-Lf. (6) DFA-14-Rg. (6)	DFB-3 (24)	DFC-4 (21)	DFD-6 (9)	DFE-1 (28)
			* Used with Flanged Cam.						
Marmon, Little .....(1927) 12x1¾ Standard 3 Shoe	*DA-21-Fr. (1) †DA-22-Fr. (1) ‡DA-23-Fr. (2) §DA-24-Fr. (1) DA-25-Rr. (1)	¶DAA-1-Fr. (6) ‖§DAA-2-Fr. (11) DAA-10-Rr. (7) DAA-18-Rr. (1)	DAB-2-Fr. (6) **DAB-1-Fr. (10) DAB-15-Rr. (7)	DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20)	DFA-10-Fr. (9) DFA-19-Rr. (2)	DFB-3 (24)	DFC-4 (21)	DFD-5 (12)	DFE-1 (28)
	* Used from January to April, 1927. † Used from April to July, 1927. ‡ Used from June to August, 1927. § Used after June, 1927. ¶ Used with Unflanged Cam. ‖ Used with Flanged Cam. ** Used with DAA-2 Bracket and after car Serial 606.								
Marmon, E 75.....(1928) 16x2 Standard 3 Shoe	.....	DAA-19-Fr. (1) DAA-5 (10)	DAB-27-Fr. (1) DAB-28-Rr. (1)	DD-24-Pri. (6) DD-25-Sec. (4) DD-24-Aux. (6)	DFA-20-Lf. (1) DFA-21-Rg. (1)	DFB-3 (24)	DFC-4 (21)	DFD-10 (7)	DFE-1 (28)
Marmon, 68.....(1928-29) 12x1¾ Standard 3 Shoe	DA-4 (6)	DAA-10 (7)	DAB-15 (7)	DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20)	DFA-10 (9)	DFB-3 (24)	DFC-4 (21)	DFD-5 (12)	DFE-1 (28)
Marmon, 78.....(1928-29) 12x1¾ Standard 3 Shoe	DA-23-Fr. (2) DA-4 (6)	DAA-2-Fr. (11) DAA-10 (7)	*DAB-1-Fr. (10) DAB-15 (7)	DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20)	DFA-10 (9)	DFB-3 (24)	DFC-4 (21)	DFD-5 (12)	DFE-1 (28)
			* Used with DAA-2 Bracket.						
Marmon, Roosevelt.....(1929) 11x1½ Duo Servo 2 Shoe	.....	DAA-6 (6)	DAB-12 (13)	DD-12-Pri. (12) DD-12-Sec. (12)	DFA-7 (10)	DFB-5 (16)	.....	DFD-4 (24)	DFE-5-Fr. (10) DFE-6-Rr. (7)
Marmon, X H Big 8.....(1930) 15x2 Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-26-Pri. (2) DD-26-Sec. (2)	.....	DFB-6 (9)	.....	DFD-2 (5)	DFE-7 (9)
			Cable and Conduit Control.						
Marmon, X Q.....(1930) 12x1½ Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-20-Pri. (8) DD-20-Sec. (8)	.....	DFB-5 (16)	.....	DFD-4 (24)	DFE-6 (7)
			Cable and Conduit Control.						
Marmon, X W 79.....(1930) 14x2 Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-27-Pri. (4) DD-27-Sec. (4)	.....	DFB-6 (9)	.....	DFD-7 (6)	DFE-7 (9)
			Cable and Conduit Control.						
Marquette.....(1929-30) 12x1¾ Duo Servo 2 Shoe	.....	DAA-7 (8)	DAB-12 (13)	DD-28-Pri. (2) DD-28-Sec. (2)	DFA-7 (10)	DFB-5 (16)	.....	DFD-4 (24)	DFE-5 (10)
Nash, Special 6.....(1930) 13x1¾ Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-13-Pri. (4) DD-13-Sec. (4)	.....	DFB-5 (16)	.....	DFD-4 (24)	DFE-6 (7)
			Cable and Conduit Control.						
Nash, Adv. 8 (490 Twin Ign.)....(1930) 15x2 Duo Servo 2 Shoe	.....	DAA-11 (4)	DAB-12 (13)	DD-29-Pri. (4) DD-29-Sec. (4)	DFA-16 (4)	DFB-6 (9)	.....	DFD-2 (5)	DFE-7 (9)
Oldmobile, F-28 (1928), F-29 ...(1929) 12x1¾ Standard 3 Shoe	.....	DAA-5 (10)	DAB-6 (5)	DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20)	DFA-10 (9)	DFB-3 (24)	DFC-4 (21)	DFD-5 (12)	DFE-1 (28)
				Front Brakes only.					
Oldmobile, F-30.....(1930) 12x1½ Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-20-Pri. (8) DD-20-Sec. (8)	.....	DFB-5 (16)	.....	DFD-4 (24)	DFE-6 (7)
			Cable and Conduit Control.						

Digitized by Google

AMBLER AUTOBESTOS
(Trade Mark Registered 1906)

AUTOMOTIVE PRODUCTS

Brake Linings
BLUE BRAND—PASSENGER TYPE



These 6 Rolls are all you need for 85% of Lining Jobs

SIZES AND MAKES OF CARS

1½" x 5/32"

Chevrolet	Star
Pontiac	Erskine
Whippet	Studebaker
Durant	Roosevelt
Marmon	Willys-Knight
Essex	

1½" x 3/16"

De Soto	Pontiac
Plymouth	Fargo

1¾" x 3/16"

Auburn	Chrysler
Dodge	Franklin
Gardner	Stutz
Peerless	Hupmobile
Reo	Willys-Knight
G. M. C.	Durant
Oldsmobile	Falcon Knight
International	Locomobile
Graham Paige	Marmon
Kissel	Whippet
Velie	Star
Studebaker	

1¾" x 5/32"

Nash Standard and Light Six	Chandler-Chrysler

2" x 3/16"

Graham Truck	Locomobile
Hudson	Stewart Truck
Studebaker	Cunningham
Yellow Cab	Dodge
Sheldon	Hupmobile
Packard	LaSalle
Stearns-Knight	Packard
Autocar	Studebaker Truck
Oakland	Jordan
Pierce-Arrow	
Hertz	

2" x 5/32"

Nash Advance, Big Six and Special	Du Pont
Auburn	Durant
Chandler	Franklin
Chrysler	Gardner
	Peerless

Other Types of Ambler Autobestos

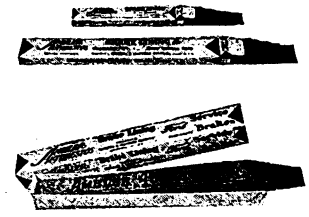
"REGULAR" Ambler Autobestos for external brakes.

BLUE BRAND BUS-TRUCK Lining for heavy duty on buses and trucks.

MOLDED LINERS for brakes which demand a molded stock.

WINMOR Brake Lining — a new economical long-wear lining adapted for external or internal brakes.

PACKAGED SETS FOR FORD CHEVROLET AND PONTIAC



Special boxes of cut lengths of Ambler Autobestos for Ford Models A and AA; Chevrolet "6" 1929-30, front and rear; Chevrolet "4" 1926-27-28 rear only; Pontiac 1926-27-28. Ford Transmission linings for Model T, also packaged ready to apply.

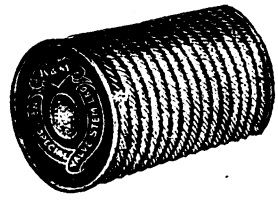
WOVEN AND GROUND CLUTCH FACINGS

GROUND SURFACE
WOVEN CLUTCH FACINGS

A complete line, all drilled and counter-sunk to manufacturers specifications. Packed in standard cartons for easy stocking and made to give MAXIMUM SERVICE WITH MINIMUM WEAR!

VALVE STEM PACKING

A perfect packing made by twisting together strands of lubricated and graphited asbestos yarn. Withstands extreme heat and pressure. Furnished in ¼, ½, 1 and 5 lb. spools.



PUMP PACKING RINGS

A packing of braided, selected Asbestos yarn, well lubricated and graphited, made especially for water pumps on automobiles, tractors and trucks. Made true to size for any make of vehicle.

Branch Sales Offices:
Baltimore Boston Chicago Cleveland Cincinnati Minneapolis New York Philadelphia Pittsburgh

Factory Warehouse Distributors:
Dixie Asbestos Co., Birmingham, Ala. Farrington Engineering Co., Los Angeles, Calif.
E. J. Eddy, Buffalo, N. Y.

KEASBEY & MATTISON COMPANY AMBLER, PENNA.

Digitized by Google

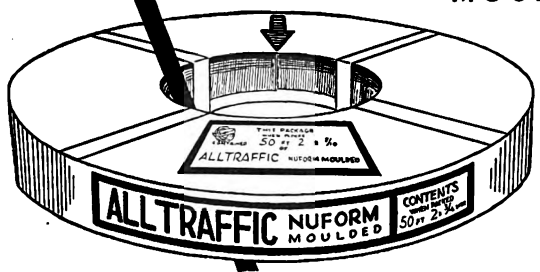
BENDIX BRAKES PARTS—Continued

Car Make and Model	Control Shaft and Carrier Bracket Assembly	Carrier Bracket	Operating Cam	Brake Shoes Less Lining	Reinforcement Plate	Eccentric Adjusting Cam	Articulating Pin	Primary and Auxiliary or Primary and Secondary Shoe Spring	Primary or Secondary Shoe Spring
Overland, 93.....(1926) 12x1¾ Standard 3 Shoe	.....	DAA-5 (10)	.....	.....	DFA-10-Fr. (9)	DFB-1 (6) DFB-3-Rr. (24)	*DFC-1 (6) †DFC-4 (21)	DFD-5 (12)	DFE-1 (28)
		* Used with Take-up Cam with plain head. † Used with Take-up Cam with groove in head.							
Packard, (6 Cyl.) 326, 333..(1925–26) 14x2x¼ Standard 3 Shoe	*DA-27-Lf.Fr. (1) *DA-28-Rg.Fr. (1) *DA-29-Rr. (1)	*DAA-21-Fr. (2) *DAA-22-Rr. (4)	*DAB-29-Lf.Fr. (2) *DAB-30-Rg.Fr. (2)	DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)	DFA-13-Lf. (6) DFA-14-Rg. (6)	DFB-3 (24)	†DFC-4 (21)	DFD-6 (9)	DFE-1 (28)
		* Used with Straight Backing Plate. † Used with Take-up Cam with groove in head.							
Packard, (6 Cyl.) 426, 433.....(1927) 14x2 Standard 3 Shoe	DA-30-Lf.Fr. (2) DA-31-Rg.Fr. (2) DA-33-Rr. (2)	*DAA-21-Fr. (2) *DAA-22-Rr. (4) †DAA-23-Lf.Fr. (2) †DAA-24-Rg.Fr.(2)	DAB-31-Lf.Fr. (4) DAB-32-Rg.Fr. (4)	DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)	DFA-13-Lf. (6) DFA-14-Rg. (6)	DFB-3 (24)	‡DFC-4 (21)	DFD-6 (9)	DFE-1 (28)
	* Used with Straight Backing plate. † Used with Flanged Backing Plate. ‡ Used with Take-up Cam with groove in head.								
Packard, (6 Cyl.) 526, 533.....(1928) 14x2 Standard Welded 3 Shoe	DA-30-Lf.Fr. (2) DA-31-Rg.Fr. (2) DA-33-Rr. (2)	*DAA-23-Lf.Fr. (2) *DAA-24-Rg.Fr.(2) DAA-25-Rr. (2)	DAB-31-Lf.Fr. (4) DAB-32-Rg.Fr.(4) DAB-33-Rr. (3)	DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)	DFA-22-Lf. (1) DFA-23-Rg. (1)	DFB-3 (24)	DFC-9 (2)	DFD-6 (9)	DFE-9 (2)
			* Used with Flanged Backing plate.						
Packard, (8 Cyl.) 236, 243.....(1926)	DA-32-Lf.Fr. (1) DA-34-Rg.Fr. (1) DA-35-Rr. (6)	*DAA-26-Fr. (2) †DAA-22-Rr. (4) DAA-27-Rr. (5)	DAB-33-Rr. (3) DAB-34-Rr. (6) *DAB-35-Lf. (1) *DAB-36-Rg.Fr.(1)	DD-24-Pri. (6) DD-25-Sec. (4) DD-27-Aux. (4)	.....	DFB-3 (24)	‡DFC-4 (21)	DFD-1 (4)	DFE-1 (28)
	* Used with Straight Backing Plate. † Used with Flanged Backing Plate. ‡ Used with Take-up Cam with groove in head.								
Packard, (8 Cyl.) 336, 343.....(1927) 16x2 Standard 3 Shoe	*DA-36-Lf.Fr. (1) *DA-37-Rg.Fr. (1) DA-35-Rr. (6) DA-38-Lf.Fr. (2) DA-39-Rg.Fr. (2)	*DAA-26-Fr. (2) *DAA-22-Rr. (4) DAA-27-Rr. (5) DAA-28-Lf.Fr. (2) DAA-29-Rg.Fr.(2)	DAB-33-Rr. (3) *DAB-29-Lf.Fr. (2) *DAB-30-Rg.Fr.(2) DAB-34-Rr. (6) DAB-31-Lf.Fr. (4) DAB-32-Rg.Fr.(4)	DD-24-Pri. (6) DD-25-Sec. (4) DD-27-Aux. (4)	.....	DFB-3 (24)	†DFC-4 (21)	‡DFD-1 (4)	DFE-1 (28)
	* Used with Straight Backing Plate. † Used with Take-up Cam with groove in head. ‡ Used with Aluminum Shoes.								
Packard, (8 Cyl.) 443.....(1928) 16x2 Welded 3 Shoe	DA-38-Lf.Fr. (2) DA 39 Rg.Fr. (2) DA-35-Rr. (6)	*DAA-30-Lf.Fr. (1) *DAA-31-Rg.Fr.(1) DAA-25-Rr. (2) DAA-28-Lf.Fr. (2) DAA-29-Rg.Fr.(2)	DAB-31-Lf.Fr. (4) DAB-32-Rg.Fr.(4) DAB-37-Lf.Fr. (3) DAB-38-Rg.Fr (3) DAB-34-Rr. (6)	DD-31-Pri. (3) DD-32-Sec. (3) DD-33-Aux. (3)	DFA-1-Lf. (3) DFA-2-Rg. (3)	DFB-3 (24)	DFC-9 (2)	DFD-11 (2)	DFE-9 (2)
			* Used with Flanged Backing Plate.						
Packard, (8 Cyl.) 640, 645.....(1929) 16x2 Welded 3 Shoe	DA-40-Lf.Fr. (2) DA-41-Rg.Fr. (2) DA-35-Rr. (6)	DAA-32-Lf.Fr. (2) DAA-34-Rg.Fr.(2) *DAA-33-Lf.Fr. (2) *DAA-35-Rg.Fr.(2) DAA-36-Lf.Fr. (3) DAA-37-Rg.Fr.(3) *DAA-27-Rr. (5)	*DAB-37-Lf.Fr (3) *DAB-38-Rg.Fr.(3) DAB-40-Lf.Fr. (3) DAB-41-Rg.Fr.(3) *DAB-34-Rr. (6)	DD-31-Pri. (3) DD-32-Sec. (3) DD-33-Aux. (3)	DFA-24 (3)	DFB-7 (7)	DFC-10 (5)	DFD-10 (7)	DFE-1 (28)
			* Also used on 6th Series 1928.						
Packard, (8 Cyl.) 626, 633 .(1929–30) 726, 733.....(1930) 16x1¾ Welded 3 Shoe	DA-40-Lf.Fr. (2) DA-41-Rg.Fr. (2) DA-35-Rr. (6) *DA-42-Lf.Fr. (1) *DA-43-Rg.Fr. (1)	DAA-32-Lf.Fr. (2) DAA-34-Rg.Fr.(2) †DAA-33-Lf.Fr (2) †DAA-35-Rg.Fr.(2) DAA-36-Lf.Fr. (3) DAA-37-Rg.Fr.(3) DAA-27-Rr. (5)	DAB-37-Lf.Fr. (3) DAB-38-Rg.Fr.(3) DAB-40-Lf.Fr. (3) DAB-41-Rg.Fr.(3) DAB-34-Rr. (6)	DD-34-Pri. (1) DD-35-Sec. (1) DD-36-Aux. (1)	DFA-24 (3)	DFB-7 (7)	DFC-10 (5)	DFD-10 (7) DFD-11 (2)	DFE-1 (28)
			* Used on Models 726, 733. † Also used on 6th Series 1928.						
Packard, (8 Cyl.) 745, 747.....(1930) 16x2 Welded 3 Shoe	DA-44-Lf.Fr. (1) DA-45-Rg.Fr. (1) DA-35-Rr. (6)	DAA-36-Lf.Fr. (3) DAA-37-Rg.Fr.(3) DAA-27-Rr. (5)	DAB-40-Lf.Fr. (3) DAB-41-Rg.Fr.(3) DAB-34-Rr. (6)	DD-31-Pri. (3) DD-32-Sec. (3) DD-33-Aux. (3)	DFA-24 (3)	DFB-7 (7)	DFC-10 (5)	DFD-10 (7)	DFE-1 (28)
Peerless, Std.....(1930) 12x1½ Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-20-Pri. (8) DD-20-Sec. (8)	.....	DFB-5 (16)	.....	DFD-4 (24)	DFE-6 (7)
			Cable and Conduit Control.						
Peerless, Master 8.....(1930) 14x2 Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-37-Pri. (2) DD-37-Sec. (2)	.....	DFB-6 (9)	.....	DFD-7 (6)	DFE-7 (9)
			Cable and Conduit Control.						
Peerless, Custom 8.....(1930) 15x2 Duo Servo 2 Shoe	.....	.....	DAB-16 (12)	DD-29-Pri. (4) DD-29-Sec. (4)	.....	DFB-6 (9)	.....	DFD-2 (5)	DFE-7 (9)
			Cable and Conduit Control.						

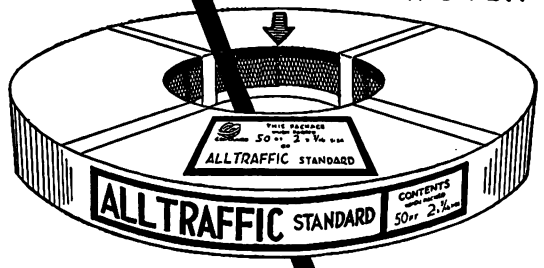
Digitized by Google

A Complete Line..

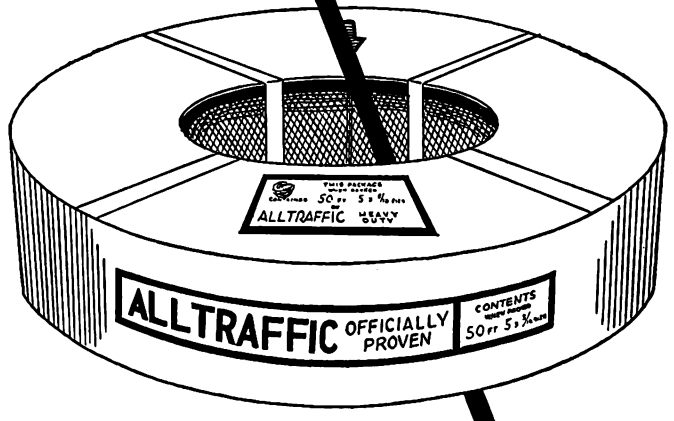
MOULDED

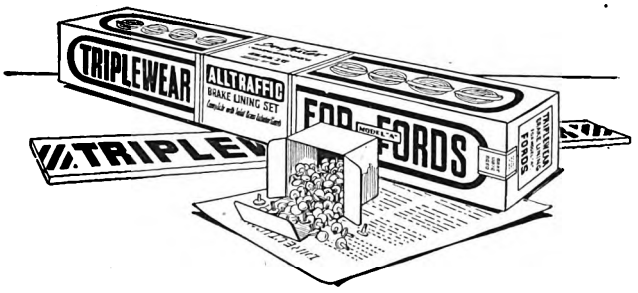


WOVEN



HEAVY DUTY





FOR MODEL A AND AA FORDS

NOW . . . Alltraffic and Triplewear Makers offer you individuality on a complete line of proven products! Alltraffic woven and moulded linings cover every braking demand and set a high standard of satisfactory braking performance.

Quality and performance have been the keynote in the development and construction of Alltraffic . . . and where quality and unparalleled performance are blended . . . success is inevitable! YOU can profit with these products!

FOR MODEL T FORDS

Safer with fewer adjustments

ALLTRAFFIC Products save time, labor and grief . . . because they are safer with fewer adjustments! They are packaged and boxed in the most convenient manner for economical handling. Both the moulded and woven linings are offered in a complete range of sizes for Passenger and Commercial requirements. Woven Sets for Model T, A and AA Fords are attractively boxed, complete with directions and rivets. Moulded sets furnished in bulk—with or without rivets.

Write for further information.

Manufactured by

Durwyllan Co. at Paterson, N.J.

ALLTRAFFIC BRAKE LINING WOVEN OR MOULDED

"TRAFFIC TESTED ❖ SERVICE PROVEN"

Digitized by Google

BENDIX BRAKE PARTS—Continued

Car Make and Model	Control Shaft and Carrier Bracket Assembly	Carrier Bracket	Operating Cam	Brake Shoes Less Lining	Reinforcement Plate	Eccentric Adjusting Cam	Articulating Pin	Primary and Auxiliary or Primary and Secondary Shoe Spring	Primary or Secondary Shoe Spring
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column									
Pierce Arrow, 133, 143.....(1929-30) 15x2¼ Servo Welded 3 Shoe	*DA-46 (4)	DAA-8 (4)	DAB-42 (4)	DD-38-Pri. (2) DD-39-Sec. (1) DD-40-Aux. (2)	DFA-25 (2)	DFB-7 (7)	DFC-10 (5)	DFD-10 (7)	DFE-1 (28)
	* Interchangeable with DA-4.								
Stearns Knight, F-685.....(1927-28) 14x2 Standard 3 Shoe	*DA-47-Lf.Fr. (1) *DA-48-Rg.Fr. (1) †DA-49-Lf.Fr. (1) †DA-50-Rg.Fr. (1) ‡DA-51-Fr. (1) §DA-52-Fr. (1) DA-53-Lf.Rr. (1) DA-54-Rg.Rr. (1)	¶DAA-1-Fr. (6) ‖DAA-2 (11) DAA-39-Rr. (1) DAA-5 (10) *DAA-40-Fr. (1)	‡DAB-2-Fr. (6) **DAB-1-Fr. (10) ††DAB-43-Rr. (1) ‡‡DAB-44-Rr. (1) §§DAB-45-Rr. (1) *DAB-4-Fr. (3)	DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)	§DFA-11-Lf. (2) §DFA-12-Rg. (2)	§DFB-1 (6) DFB-3 (24)	¶¶DFC-1 (6) ‖‖DFC-4 (21)	DFD-6 (9)	DFE-1 (28)
	* Used on 1925 and early 1926 cars. † Used on late 1926 cars. ‡ Used before car Serial 606 in 1927. § Used on cars after Serial 606 ¶ Used with Unflanged Cam. ‖ Used with Flanged Cam. ** Used with DAA-2 Brackets. †† Used on early cars using brackets with two studs. ‡‡ Used on cars using brackets with bronzed bushings. §§ Used on late 1927 and on 1928 cars. ¶¶ Used with Take-up Cam with plain head. ‖‖ Used with Take-up with groove in head.								
Stearns Knight, 8-85.....(1927-28) 16x2½ Standard 3 Shoe	†DA-55-Lf.Fr. (1) †DA-56-Rg.Fr. (1) †DA-57-Lf.Fr. (1) †DA-58-Rg.Fr. (1) *DA-59-Lf.Rr. (1) *DA-60-Rg.Rr. (1) †DA-61-Lf.Rr. (1) †DA-62-Rg.Rr. (1)	*DAA-13-Fr. (2) †DAA-42-Fr. (1) DAA-43-Rr. (1)	*DAB-46-Lf.Rr. (1) *DAB-47-Rg.Rr. (1) †DAB-19-Lf.Fr. (2) †DAB-20-Rg.Fr. (2) †DAB-21-Lf.Rr. (2) †DAB-22-Rg.Rr. (2)	DD-22-Pri. (2) DD-23-Sec. (3) DD-41-Aux. (1)	DFA-26-Lf. (1) DFA-27-Rg. (1)	DFB-7 (7)	DFC-5 (2)	DFD-8 (2)	DFE-8 (2)
	* Used before car Serial 650. † Used after car Serial 650.								
Stearns Knight, 8-90.....(1929) 16x2½ Duo Servo 2 Shoe	.....	DAA-4 (2)	DAB-5- (2)	DD-3-Pri. (4) DD-3-Sec. (4)	DFA-3 (2)	DFB-2 (2)	.....	DFD-2 (5)	DFE-2 (2)
Studebaker, Dictator 6.....(1927) 12x1¾ Super Servo	.....	.....	DAB-50 (2)	DD-9-Pri. (3) DD-10-Sec. (3) DD-11-Aux. (3)	DFA-6 (1)	DFB-4 (7)	DFC-3 (7)	*DFD-4 (24)	DFE-4 (8)
	* Used with Steel Shoes.								
Studebaker, Dictator 6.....(1927-28) 12x1¾ Super Servo	.....	.....	*DAB-7-Lf.Fr. (2) *DAB-8-Rg.Fr. (2) *DAB-9-Rr. (3) †DAB-51-Lf. (2) †DAB-52-Rg. (2)	DD-9-Pri. (3) DD-10-Sec. (3) DD-11-Aux. (3)	DFA-28 (1)	DFB-4 (7)	DFC-3 (7)	DFD-4 (24)	DFE-4 (8)
	* Used on cars not having bracket with bronzed bushing. † Used on cars having bracket with bronzed bushing.								
Studebaker, Commander 6 GB..(1928) 14x2 Standard 3 Shoe	*DA-63-Fr. (1) *DA-64-Fr. (1) ‡DA-46-Rr. (4)	§DAA-2-Fr. (11) DAA-8-Rr. (4)	¶DAB-39-Fr. (2) DAB-42-Rr. (4)	DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)	DFA-13-Lf. (6) DFA-14-Rg. (6)	DFB-3 (24)	DFC-4 (21)	DFD-6 (9)	DFE-1 (28)
	* Used before car Serial GH 4063817. † Used after car Serial GH 4063817. ‡ Interchangeable with DA-4. § Used with Flanged Cam. ¶ Interchangeable with DAB-1 on this car.								
Studebaker, President 8 FA.....(1928) 14x2 Standard 3 Shoe	*DA-65 (1) †DA-66-Fr. (1) †‡DA-46-Rr. (4)	§DAA-2-Fr. (11) DAA-8-Rr. (4)	¶DAB-39-Fr. (2) DAB-42-Rr. (4)	DD-17-Pri. (16) DD-18-Sec. (8) DD-17-Aux. (16)	DFA-13-Lf. (6) DFA-14-Rg. (6)	DFB-3 (24)	DFC-4 (21)	DFD-6 (9)	DFE-1 (28)
	* Used before car Serial 6009298 Rg. Side and 6009596 Lf. Side. † Used after car Serial 6009298 Rg. Side and 6009596 Lf. Side. ‡ Interchanges with DA-4. § Used with Flanged Cam. ¶ Interchanges with DAB-1 on this car.								
Studebaker, President 8 FE.....(1929) 15x2¼ Servo Welded 3 Shoe	*DA-46 (4)	DAA-10 (7)	DAB-42 (4)	DD-38-Pri. (2) DD-45-Sec. (1) DD-40-Aux (2)	DFA-25 (2)	DFB-7 (7)	DFC-10 (5)	DFD-10 (7)	DFE-1 (28)
	* Interchanges with DA-4.								
Studebaker, Commander 6 GJ (1929) 12x1¾ Steel Servo	.....	.....	*DAB-50 (2) DAB-51-Lf. (2) DAB-52-Rg. (2)	DD-9-Pri. (3) DD-10-Sec. (3) DD-11-Aux. (3)	DFA-29 (1)	DFB-4 (7)	DFC-3 (7)	DFD-4 (24)	DFE-4 (8)
	* Used with Super Servo type Brakes.								

Digitized by Google

Studebaker, Dictator 8.....(1929) 11x1½ Super Servo.	.....		.....		DAB-13-Lf. (2) DAB-14-Rg. (2)		DD-6-Pri. (4) DD-46-Sec. (1) DD-47-Aux. (1)		DFA-5	(4)	DFB-4	(7)	DFC-3	(7)	DFD-4	(24)	DFE-4	(8)
Viking.....(1929–30) 14x2 Duo Servo 2 Shoe	.....		DAA-11	(4)	DAB-12	(13)	DD-19-Pri. (8) DD-19-Sec. (8)		DFA-16	(4)	DFB-6	(9)	.....		DFD-7	(6)	DFE-7	(9)
Whippet 93A.....(1927) 11x1½ Standard 3 Shoe	.....		DAA-5	(10)	DAB-6	(5)	DD-4-Pri. (6) DD-5-Sec. (3) DD-4-Aux. (6) Front Brakes only.		DFA-4	(2)	DFB-3	(24)	DFC-2-Pri. (3) DFC-2-Aux. (1)		DFD-3 DFD-5	(3) (12)	DFE-3 DFE-1	(3) (28)
Whippet, 96.....(1928-29) 11x1½ 2 Shoe	DA-26	(1)	DAA-20	(1)	.....		DD-30-Pri. (2) DD-30-Sec. (2) * Used before 1929 cars. † Used on 1929 cars. Front Brakes only.		.....		DFB-9	(1)	*DFC-6 (1) †DFC-7 (1)		DFD-4	(24)	DFE-4	(8)
Whippet, 98A.....(1929–30) 11x1½ Duo Servo 2 Shoe	.....		DAA-6	(5)	DAB-12	(13)	DD-12-Pri. (12) DD-12-Sec. (12) Front Brakes only.		DFA-7	(10)	DFB-5	(16)	.....		DFD-4	(24)	DFE-5	(10)
Willys-Knight 56.....(1928–29) 12x1¾ Standard 3 Shoe	.....		DAA-5	(10)	DAB-18	(3)	DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20) Front Brakes only.		DFA-10	(9)	DFB-3	(24)	DFC-4	(21)	DFD-5	(12)	DFE-1	(28)
Willys-Knight, 70B.....(1929) 12x1¾ Standard	.....		DAA-5	(10)	DAB-18	(3)	DD-15-Pri. (20) DD-16-Sec. (10) DD-15-Aux. (20) Front Brakes only.		DFA-30	(1)	DFB-3	(24)	DFC-4	(21)	DFD-5	(12)	DFE-1	(28)
Willys-Knight, 70B.....(1930) 12x1¾ Duo Servo	.....		DAA-7	(3)	DAB-12	(13)	DD-21-Pri. (4) DD-21-Sec. (4)		DFA-7	(10)	DFB-5	(16)	.....		DFD-4	(24)	DFE-5	(10)
Willys-Knight, 66B.....(1930) 14x2 Duo Servo 2 Shoe	.....		DAA 11	(4)	DAB-12	(13)	DD-19-Pri. (8) DD-19-Sec. (8)		DFA-16	(4)	DFB-6	(9)	.....		DFD-7	(6)	DFE-7	(9)
Willys Six, 98B.....(1930) 11x1½ Duo Servo 2 Shoe	.....		DAA-6	(5)	DAB-12	(13)	DD-12-Pri. (12) DD-12-Sec. (12)		DFA-7	(10)	DFB-5	(16)	.....		DFD-4	(24)	DFE-5	(10)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts.
The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Abbreviations: Fr.—Front. Rr.—Rear. Lf.—Left. Rg.—Right. Pri.—Primary. Sec.—Secondary. Aux.—Auxiliary.

Digitized by Google

BRAKE ASSEMBLIES

Section 2

LOCKHEED HYDRAULIC BRAKE PARTS—First Group

HOW TO USE THIS TABLE:

(See instructions at beginning of BRAKE ASSEMBLIES, page 260)

NOTE: In this table the same CHILTON NUMBERS occur frequently in both the forward and the reverse brake shoe columns. In such instances the forward and reverse shoes are interchangeable.

CAR MAKE AND MODEL	MASTER CYLINDER										BRAKE SHOES**				Anchor Pin or Stud (All Wheels)		Brake Shoe or Band Return Spring	
	Complete Assembly		Cylinder Casting or Head and Bbl.		Piston Cup		Piston Stop		Master Piston Assembly		Complete Brake Shoe Assembly (Forward)		Complete Brake Shoe Assembly (Reverse)					
Auburn, 4-44 (1926)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(34)
Auburn, 76, 88 (1928)	DI-2	(13)	DIA-2	(19)	DIB-2	(52)	DIC-2 (23) / DIC-3 (19)		DID-2	(22)	DL-1	(6)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
Auburn, 88 (1928)	DI-3	(4)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-1	(6)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
Auburn, 115 (1928)	DI-3	(4)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-2	(6)	DL-15	(6)	DOA-2	(12)	DOB-3	(12)
Auburn, 115 (1928)	DI-2	(13)	DIA-2	(19)	DIB-2	(52)	DIC-3	(19)	DID-2	(22)	DL-2	(6)	DL-15	(6)	DOA-2	(12)	DOB-3	(12)
Auburn, 80, 90 (Channel Shoes) (1929)	DI-3	(4)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-3	(2)	DL-3	(2)	DOA-3	(4)	DOB-4	(4)
Auburn, 120 (Channel Shoes) (1929)	DI-3	(4)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-4	(5)	DL-4	(5)	DOA-4	(6)	DOB-5	(6)
Case (Columbia Axle) (1926-27)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(16)									DOB-1	(34)
Chalmers (Eaton Axle) (1925)	DI-1	(16)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)										
Chrysler, 58 (1926)	DI-4	(1)	DIA-4	(1)	DIB-3	(2)	DIC-5	(2)	DID-4	(2)							DOB-1	(34)
Chrysler, 70 (1926)	*DI-5 / DI-8	(1)	DIA-5 / DIA-6	(1)	DIB-3	(2)	DIC-5	(2)	DID-4	(2)							DOB-1	(34)
Chrysler, 58 (1927)	DI-11	(1)	DIA-7	(1)	DIB-4	(5)	DIC-6	(5)	DID-5	(5)							DOB-1	(34)
Chrysler 60, 1927, †62 (1928)	DI-12	(1)	DIA-8	(1)	DIB-4	(5)	DIC-6	(5)	DID-5	(5)							DOB-1	(34)
Chrysler 70 1927, †72 (1928)	DI-14	(1)	DIA-9	(1)	DIB-4	(5)	DIC-6	(5)	DID-5	(5)							DOB-1	(34)
Chrysler, 80 (1927)	DI-16	(1)	DIA-10	(1)	DIB-9	(1)	DIC-7	(1)	DID-6	(1)							DOB-1	(34)
Chrysler, 80 (1928-29)	DI-17	(1)	DIA-11	(1)	DIB-2	(52)	DIC-3 (19) / DIC-2 (23)		DID-2	(22)	DL-5-Lf. (1) / DL-6-Rg. (1)		DL-16-Rg. (1) / DL-17-Lf. (1)				DOB-6	(4)
Chrysler, 65 (Back-to-Back Shoes) (1929)	DI-18	(2)	DIA-12	(4)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-7	(1)	DL-18	(1)	DOA-5	(2)	DOB-7	(3)
Chrysler, 66 (T-Section Shoes) (1929-30)	DI-19	(2)	DIA-13	(2)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-8	(2)	DL-19	(2)	DOA-6	(3)	DOB-8	(3)
Chrysler, 70, 77 (T-Section Shoes) (1929-30)	DI-19	(2)	DIA-13	(2)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-9	(1)	DL-20	(1)	DOA-5	(2)	DOB-7	(3)
Chrysler, 75 (3 Piece Pressed Steel Shoes) (1929)	DI-18	(2)	DIA-12	(4)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-10	(1)	DL-21	(1)	DOA-7	(1)	DOB-7	(3)
Davis, 92, 93 (1926-27); 94, 98 (1927)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(34)
De Soto (1929)	DI-20	(2)	DIA-12	(4)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-11	(2)	DL-22	(2)	DOA-6	(3)	DOB-8	(3)
Diana, Str. 8 (1926-27 28)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(34)
Dodge, Senior 6 (1928)	DI-2	(13)	DIA-2	(19)	DIB-2	(52)	DIC-2 (23) / DIC-3 (19)		DID-2	(22)	DL-23F (2) / DL-13R (1)		DL-24F (2) / DL-25R. (1)		DOA-2	(12)	DOB-9 (3) / DOB-10 (1)	
Dodge, Victory 6, 130 (1928)	DI-2	(13)	DIA-2	(19)	DIB-2	(52)	DIC-2 (23) / DIC-3 (19)		DID-7	(1)	DL-1	(6)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
Dodge, DA (Channel Shoes) (1929)	DI-20	(2)	DIA-12	(4)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-26	(1)	DL-26	(1)	DOA-3	(4)	DOB-4	(4)
Dodge, Senior (1929)	DI-21	(3)	DIA-14	(3)	DIB-2	(52)	DIC-2 (23) / DIC-3 (19)		DID-2	(22)	DL-23	(2)	DL-24	(2)	DOA-2	(12)	DOB-9	(3)
Elcar, 6-65 (1926 ; 8-80 (1926-27)																		
8-85, 8-91, 92, 120 (1927-28)	DI-1	(16)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(34)
Elcar, 6-70, 8-82 (1927-28); 8-78 (1928)	DI-22	(6)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-8	(6)							DOB-1	(34)
Elcar, 6-75 (Die Cast Shoes) (1929-30)	DI-23	(13)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-27	(5)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
Elcar, 95, 120 (Malleable Shoes) (1929-30)	DI-23	(13)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-28	(2)	DL-29	(2)	DOA-8	(2)	DOB 3	(12)
Flint, 40, 55, 60 (1925); 80 (1925-26-27)	DI-24	(1)	DIA-16	(1)	DIB-6	(1)			DID 9	(1)	DL-30	(1)	DL-30	(1)	DOA-9 / DOA-10	(1) / (1)	DOB-11 / DOB-12	(1) / (1)
Franklin, Airman (1927-28)	DI-25	(3)	DIA-2	(19)	DIB-2	(52)	DIC-2 (23) / DIC-3 (19)		DID-2	(22)	DL-31F. (2) / DL-32R. (3)		DL-31	(4)	DOA-2	(12)	DOB-3	(12)
Franklin 130, 135, 137 (Die Cast Shoes) (1929)	DI-25	(3)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	§DL-31	(2)	DL-31	(4)	DOA-2	(12)	DOB-3	(12)
Franklin 130, 135, 137 (Late) (Channel Shoes) (1929)	DI-25	(3)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-33	(2)	DL-33	(2)	DOA-4	(6)	DOB-5	(6)
Franklin, 145, 147 (1930)	DI-26	(1)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-33	(2)	DL-33	(2)	DOA-4	(6)	DOB-5	(6)
Gardner, 8-85 (1928)	DI-2	(13)	DIA-2	(19)	DIB-2	(52)	DIC-2 (23) / DIC-3 (19)		DID-2	(22)	DL-1	(6)	DL-14	(11)	DOA 1	(11)	DOB-2	(12)
Gardner, 8-95 (1928)	DI-2	(13)	DIA-2	(19)	DIB-2	(52)	DIC-2 (23) / DIC-3 (19)		DID-2	(22)	DL-2	(6)	DL-15	(6)	DOA-2	(12)	DOB-3	(12)

Digitized by Google

Gardner, 120, 12 (1929)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-1	(6)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
Gardner, 130 (1929)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-2	(6)	DL-15	(6)	DOA-2	(12)	DOB-3	(12)
Gardner, 120, 125 (1929); 136, 140 (Channel S.) (1929–30)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-3	(2)	DL-3	(2)	DOA-3	(4)	DOB-4	(4)
Gardner, 130 (1929); 150 (Channel Shoes) (1929–30)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-4	(3)	DL-4	(3)	DOA-4	(3)	DOB-5	(6)
Graham Paige, 610 (1928–29)	DI-27	(1)	DIA-17	(1)	DIB-5	(9)	DIC-8	(12)	DID-8	(6)							DOB-1	(54)
	●DI-28	(1)	DIA-18	(1)														
Graham Paige, 612 (Barrel Type Compensator) (1929)	DI-29	(3)	DIA-19	(3)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-36	(1)	DL-37	(1)	DOA-11	(1)	DOB-2	(12)
Graham Paige, 614 (Box Type Compensator) (1928–29)	DI-30	(3)	DIA-20	(3)	DIB-7	(3)	DIC-2	(23)	DID-10	(3)							DOB-1	(54)
Graham Paige, 615 (Barrel Type Compensator) (1929)	DI-29	(3)	DIA-19	(3)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-28	(2)	DL-29	(2)	DOA-8	(2)	DOB-3	(12)
Graham Paige, 619, 629, 835 (Box T. Comp. (1928–29)	DI-2	(15)	DIA-2	(21)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-38	(1)	DL-39	(1)	DOA-12	(2)	DOB-13	(2)
							DIC-3	(19)										
Graham Paige, 621, 827, 837 (Barrel T. Comp.) (1929–30)	DI-29	(3)	DIA-19	(3)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-12	(1)	DL-40	(1)	DOA-12	(2)	DOB-13	(2)
Hupmobile, 8 (1925)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(54)
Jewett, 23, 25 (1925)	DI-31	(2)	DIA-21	(2)	DIB-8	(2)	DIC-8	(12)	DID-11	(3)							DOB-1	(54)
Jewett, New Day (1926–27)	DI-32	(1)	DIA-1	(16)	DIB-1	(16)	DIC-8	(12)	DID-11	(3)							DOB-1	(54)
Jordan, K, L (1925); Line 8 A (1925–26); J (1926–27); JE, JJ (1928–29)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(54)
Jordan, R Small 6 (1927–28)	DI-22	(5)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-8	(6)							DOB-1	(54)
Jordan, G, T, E (1929)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-4	(3)	DL-4	(3)	DOA-4	(6)	DOB-5	(6)
Kissel, 8-75 (1925-26-27); 6-80 (1926); 6-55 (1926-27); 8-65 (1927); 8-80, 8-90 (1928)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(54)
Kissel, 6-70 (1928)	DI-22	(5)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-8	(6)							DOB-1	(54)
Kissel, 6-73 (Die Cast Shoes) (1929)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-1	(6)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
Kissel, 8-95 (Die Cast Shoes) (1929)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-2	(6)	DL-15	(6)	DOA-2	(12)	DOB-3	(12)
Kissel, 126 (3 Piece Pressed Steel Shoes) (1929)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-41	(4)	DL-42	(4)			DOB-6	(4)
Kissel, 8-126 (Channel Shoes) (1929)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-43	(2)	DL-43	(2)	DOA-13	(2)	DOB-14	(3)
McFarlan, Light 6 (1925-26); TV6 (1925-26-27-28); 8 in Line (1926-27-28)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(54)
Moon, London, Metropolitan, Newport (1925) Series A (1925-26-27-28)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(54)
Moon, 6-60, 6-62, 6-72 (1926–27–28–29)	DI-33	(2)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-12	(2)							DOB-1	(54)
Moon, 8-80, 8-82 (1928–29)	DI-30	(3)	DIA-20	(3)	DIB-7	(3)	DIC-2	(23)	DID-10	(3)							DOB-1	(54)
Moon 6-72 (Int. Brakes) 6-75, 6-77, 8-92 (1929–30)	DI-23	(14)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)					DOA-3	(4)	DOB-4	(4)
Paige, 21 (1924-25); 6-70 (1925-26); 24 (1926)	DI-31	(2)	DIA-21	(2)	DIB-8	(2)	DIC-8	(12)	DID-11	(3)							DOB-1	(54)
Paige, 8-85 (1927–28)	DI-34	(1)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-13	(1)							DOB-1	(54)
Paige, 6-45 After Chassis 320537; 6-65 After Chassis 167138; 6-75 After Chassis 117138 (1927–28)	DI-22	(5)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-8	(6)							DOB-1	(54)
Peerless, 60 (1927)	DI-22	(5)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-8	(6)							DOB-1	(54)
Peerless, 6-80 (1926); 80, 90 (1927–28)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(54)
Peerless, 61 (1929)	DI-35	(1)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-27	(5)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
Peerless, 81 (1929)	DI-36	(2)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-27	(5)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
							DIC-3	(19)										
Peerless, 91 (1928–29)	DI-36	(2)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-32	(3)	DL-31	(4)	DOA-2	(12)	DOB-3	(12)
							DIC-3	(19)										
Peerless, 8-125 (Channel Shoes) (1929–30)	DI-2	(15)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-44	(1)	DL-44	(1)	DOA-13	(2)	DOB-14	(3)
							DIC-3	(19)										
Plymouth (1928–29)	DI-37	(1)	DIA-22	(1)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-11	(2)	DL-22	(2)	DOA-6	(3)	DOB-8	(3)
	DI-38	(1)	DIA-23	(1)							DL-8	(2)	DL-19	(2)				
Reo, Flying Cloud Series "A" (1927–28)	DI-2	(15)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-45	(1)	DL-46	(1)	DOA-14	(1)	DOB-9	(3)
							DIC-3	(19)										
Reo, Wolverine B (1927)	DI-2	(15)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-27	(5)	DL-14	(11)	DOA-1	(11)	DOB-2	(12)
							DIC-3	(19)										
Reo, Flying Cloud (1928): Master (1929)	DI-21	(3)	DIA-14	(3)	DIB-2	(52)	DIC-3	(19)	DID-2	(22)	DL-32	(3)	DL-31	(4)	DOA-2	(12)	DOB-3	(12)
Reo, Wolverine B (1928); Mate (1929)	DI-21	(3)	DIA-14	(3)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-27	(5)	DL-14	(11)	DOA-1	(11)	DOB 2	(12)
Stuts, 6 (1925)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-1	(12)							DOB-1	(54)
Stuts, AA (1926–27)	DI-23	(15)	DIA-3	(19)	DIB-2	(52)	DIC-4	(29)	DID-3	(29)	DL-41	(4)	DL-42	(4)			DOB-6	(4)
Stuts, BB (1927)	DI-2	(15)	DIA-2	(19)	DIB-2	(52)	DIC-3	(19)	DID-2	(22)	DL-41	(4)	DL-42	(4)			DOB-15	(1)
Stuts, BB (1928)	DI-2	(15)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-41	(4)	DL-42	(4)			DOB-6	(4)
							DIC-3	(19)										
Stuts, L (Channel Shoes) (1929)	DI-39	(1)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-52	(1)	DL-52	(1)	DOA-4	(6)	DOB-5	(6)
Stuts, M (1929)	DI-30	(3)	DIA-20	(3)	DIB-7	(3)	DIC-2	(23)	DID-10	(3)	DL-43	(2)	DL-43	(2)	DOA-15	(1)	DOB-14	(3)
Velie, 59 (1925-26); 66 (1925-26-27)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)	DID-I	(12)							DOB-1	(54)
Velie, 6-50 (1927–28)	DI-33	(3)	DIA-15	(8)	DIB-5	(9)	DIC-8	(12)	DID-12	(2)							DOB-1	(54)
Velie, 66, 77, 88 (1928)	DI-2	(15)	DIA-2	(19)	DIB-2	(52)	DIC-2	(23)	DID-2	(22)	DL-2	(6)	DL-15	(6)	DOA-2	(12)	DOB-3	(12)
							DIC-3	(19)										
Wills St. Claire (1926)	DI-1	(15)	DIA-1	(16)	DIB-1	(16)	DIC-1	(15)									DOB-1	(54)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts.

The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

** Complete brake shoe assemblies have lining attached. Bare brake shoes are not available!
* Master Cylinder Assembly with high mounting base.
† Late 62 and 72 models use DI-13 master cylinder assembly and casting DIA-24 with plug for stop light switch (Piston cup DIB-4, Piston stop DIC-6 and Piston assembly DID-5).
§ Intermediate series use forward brake shoe assembly DL-32 on rear wheels.

● Used after 3000 cars.
F —Front.
R —Rear.
Lf —Left Side.
Rg—Right Side.

Digitized by Google

LOCKHEED HYDRAULIC BRAKE PARTS—Second Group

Note: In this table, the same CHILTON NUMBERS for the front-wheel cylinder assemblies and their component parts occur frequently in the columns covering the rear-wheel cylinders. In such instances the front and rear parts are interchangeable.

CAR, MAKE AND MODEL	FRONT WHEEL CYLINDER, RIGHT AND LEFT				REAR WHEEL CYLINDER, RIGHT AND LEFT				Hose Assembly Front and Rear
	Cylinder Assembly	Cylinder Casting	Piston Cup	Piston Boot	Cylinder Assembly	Cylinder Casting	Piston Cup	Piston Boot	
Auburn, 4-44 (1926)	DJ-1-R (13), DJ-39-L (13)	DJA-1-R (13), DJA-2-L (13)	DJB-1 (17)	DJC-1 (22)	DJ-23-R (9), DJ-33-L (9)	DJA-20-R (9), DJA-21-L (9)	DJB-1 (17)	DJC-1 (22)	DOC-1-F (73), DOC-2-R (23)
Auburn, 76, 88 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Auburn, 88 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Auburn, 115 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Auburn, 115 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Auburn, 80, 90 (Channel Shoes) (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Auburn, 120 (Channel Shoes) (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Case (Columbia Axle) (1926–27)	DJ-1-R (13), DJ-39L (13)	DJA-1-R (13), DJA-2-L (13)	DJB-1 (17)	DJC-1 (22)	DJ-23-R (9), DJ-33-L (9)	DJA-20-R (9), DJA-21-L (9)	DJB-1 (17)	DJC-1 (22)	DOC-2 (23)
Chalmers (Eaton Axle) (1925)	DJ-3 (1)	.....	DJB-1 (17)	DJC-1 (22)	DJ-3 (1)	.....	DJB-1 (17)	DJC-1 (22)	DOC-4 (7)
Chrysler, 58 (1926)	DJ-4 (2)	DJA-4 (2)	DJB-3 (3)	.....	DJ-26 (1)	DJA-22 (1)	DJB-3 (3)	.....	DOC-4 (7)
Chrysler, 70 (1926)	DJ-4 (2)	DJA-4 (2)	DJB-3 (3)	.....	DJ-4 (1)	DJA-4 (1)	DJB-3 (3)	.....	DOC-4 (7)
Chrysler, 58 (1927)	DJ-5 (3)	DJA-5 (3)	DJB-4 (3)	DJC-3 (14)	DJ-5 (3)	DJA-5 (3)	DJB-4 (3)	DJC-3 (14)	DOC-1 (73)
Chrysler, 60 (1927); 62 (1928)	DJ-5 (3)	DJA-5 (3)	DJB-4 (3)	DJC-3 (14)	DJ-5 (3)	DJA-5 (3)	DJB-4 (3)	DJC-3 (14)	DOC-1 (73)
Chrysler, 70 (1927); 72 (1928)	DJ-5 (3)	DJA-5 (3)	DJB-4 (3)	DJC-3 (14)	DJ-5 (3)	DJA-5 (3)	DJB-4 (3)	DJC-3 (14)	DOC-1 (73)
Chrysler, 80 (1927)	DJ-6 (1)	DJA-6 (1)	DJB-3 (3)	DJC-1 (22)	DJ-6 (1)	DJA-6 (1)	DJB-3 (3)	DJC-1 (22)	DOC-1 (73)
Chrysler, 80 (1928–29)	DJ-7 (1)	DJA-7 (2)	DJB-5 (5)	DJC-4 (7)	DJ-19 (4)	DJA-3 (46)	DJB-2 (52)	DJC-4 (7)	DOC-1 (73)
Chrysler, 65 (Back-to-back Shoes) (1929)	DJ-8 (3)	DJA-8 (3)	DJB-5 (5)	DJC-4 (7)	DJ-40 (6)	DJA-9 (6)	DJB-2 (52)	DJC-4 (7)	DOC-1 (73)
Chrysler, 66 (T-Section Shoes) (1929–30)	DJ-40 (3)	DJA-9 (3)	DJB-2 (47)	DJC-4 (7)	DJ-40 (6)	DJA-9 (6)	DJB-2 (52)	DJC-4 (7)	DOC-1 (73)
Chrysler, 70, 77 (T-Section Shoes) (1929–30)	DJ-8 (3)	DJA-8 (3)	DJB-5 (5)	DJC-4 (7)	DJ-40 (6)	DJA-9 (6)	DJB-2 (52)	DJC-4 (7)	DOC-1 (73)
Chrysler, 75 (3 Piece Pressed Steel Shoes) (1929)	DJ-8 (3)	DJA-8 (3)	DJB-5 (5)	DJC-4 (7)	DJ-40 (6)	DJA-9 (6)	DJB-2 (52)	DJC-4 (7)	DOC-1 (73)
Davis, 92, 93 (1926-27); 94, 98 (1927)	DJ-1-R (13), DJ-39L (13)	DJA-1-R (13), DJA-2-L (13)	DJB-1 (17)	DJC-1 (22)	DJ-23-R (9), DJ-33-L (9)	DJA-20-R (9), DJA-21-L (9)	DJB-1 (17)	DJC-1 (22)	DOC-1 (73)
De Soto (1929)	DJ-40 (3)	DJA-9 (3)	DJB-2 (47)	DJC-4 (7)	DJ-40 (6)	DJA-9 (6)	DJB-2 (52)	DJC-4 (7)	DOC-1 (73)
Diana, Str. 8 (1926–27–28)	DJ-1-R (13), DJ-39-L (13)	DJA-1 (13), DJA-2 (13)	DJB-1 (17)	DJC-1 (22)	DJ-23-R (9), DJ-33-L (9)	DJA-20-R (9), DJA-21-L (9)	DJB-1 (17)	DJC-1 (22)	DOC-2 (23)
Dodge Senior 6 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Dodge, Victory 6, 130 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Dodge, DA (Channel Shoes) (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Dodge, Senior (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Elcar, 6-65 (1926); 8-80 (1926–27); 8-85, 8-91, 92, 120 (1927–28)	DJ-1-R (13), DJ-39-L (13)	DJA-1-R (13), DJA-2-L (13)	DJB-1 (17)	DJC-1 (22)	DJ-23-R (9), DJ-33-L (9)	DJA-20-R (9), DJA-21-L (9)	DJB-1 (17)	DJC-1 (22)	DOC-2 (23)
Elcar, 6-70, 8-82 (1927-28); 8-78 (1928)	DJ-9-R (9), DJ-10-L (9)	DJA-10-R (9), DJA-11-L (9)	DJB-6 (12)	DJC-3 (14)	DJ-27 (7)	DJA-24 (7)	DJB-6 (12)	DJC-3 (14)	DOC-1-F (73), DOC-2-R (23)
Elcar, 6-75 (Die Cast Shoes) (1929–30)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Elcar, 95, 120 (Malleable Shoes) (1929–30)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Flint, 40, 55, 60 (1925); 80 (1925–26–27)	DJ-11-R (1), DJ-12-L (1)	DJA-12-R (1), DJA-13-L (1)	DJB-6 (12)	DJC-5 (1)	DJ-28-R (1), DJ-37-L (1)	DJA-25-R (1), DJA-26-L (1)	DJB-6 (12)	DJC-5 (1)	DOC-1 (73)
Franklin, Airman (1927–28)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Franklin, 130, 135, 137 (Die Cast Shoes) (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Franklin, 130, 135, 137 (Late) (Channel Shoes) (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Franklin, 145, 147 (1930)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Gardner, 8-85 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Gardner, 8-95 (1928)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Gardner, 125, 129 (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Gardner, 130 (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Gardner, 120, 125 (1929); 136, 140 (Channel Shoes) (1929–30)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Gardner, 130, (1929); 150 (Channel Shoes) (1929–30)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Graham Paige, 610 (1928–29)	DJ-13-R (2), DJ-14-L (2)	DJA-14-R (2), DJA-15-L (2)	DJB-6 (12)	DJC-3 (14)	DJ-29 (2)	DJA-27 (2)	DJB-6 (12)	DJC-3 (14)	DOC-1 (73)
Graham Paige, 612 (Barrel Type Compensator) (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Graham Paige, 614 (Box Type Compensator) (1928–29)	DJ-13-R (2), DJ-14-L (2)	DJA-14-R (2), DJA-15-L (2)	DJB-6 (12)	DJC-3 (14)	DJ-29 (2)	DJA-27 (2)	DJB-6 (12)	DJC-3 (14)	DOC-1 (73)
Graham Paige, 615 (Barrel Type Compensator) (1929)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Graham Paige, 619, 629, 835 (Box Type Comp.) (1928–29)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Graham Paige, 621, 827, 837 (Barrel Type Compensator) (1929–30)	DJ-2 (41)	DJA-3 (44)	DJB-2 (47)	DJC-2 (45)	DJ-2 (42)	DJA-3 (46)	DJB-2 (52)	DJC-2 (46)	DOC-1 (73)
Hupmobile, 8 (Before Serial 9925) (1925)	DJ-16-R (1), DJ-15-L (1)	DJA-16-R (1), DJA-17-L (1)	DJB-1 (17)	DJC-6 (2)	DJ-30-R (1), DJ-38-L (1)	DJA-28-R (1), DJA-29-L (1)	DJB-1 (17)	DJC-6 (2)	DOC-1-F (73), DOC-2-R (23)
Hupmobile, 8 (After Serial 9925) (1925–26)	DJ-17 (1)	DJA-18 (1)	DJB-1 (17)	DJC-6 (2)	DJ-17 (1)	DJA-18 (1)	DJB-1 (17)	DJC-6 (2)	DOC-2 (23)
Jewett, 23, 25 (1925)	DJ-1-R (13), DJ-39-L (13)	DJA-1-R (13), DJA-2-L (13)	DJB-1 (17)	DJC-1 (22)	DJ-31 (3)	DJA-30 (3)	DJB-1 (17)	DJC-1 (22)	DOC-2 (23)

Digitized by Google

Jewett, New Day.....(1926–27)	DJ-1-R	(13)	DJA-1-R	(13)	DJB-1	(17)	DJC-1	(22)	DJ-31	(3)	DJA-30	(3)	DJB-1	(17)	DJC-1	(22)	DOC-2	(23)
	DJ-39-L	(13)	DJA-2-L	(13)														
Jordan, K, L.....(1925)	DJ-18	(7)	.....		DJB-7	(7)	DJC-1	(22)	DJ-32	(7)	.....		DJB-7	(7)	DJC-1	(22)	DOC-4	(7)
Jordan, Line 8A (1925-26); J.....(1926–27)	*DJ-18	(7)	.....		DJB-7	(7)	DJC-1	(22)	*DJ-32	(7)	.....		DJB-7	(7)	DJC-1	(22)	DOC-2	(23)
Jordan, R Small 6.....(1927–28)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-24-R	(1)	DJA-32-R	(1)	DJB-6	(12)	DJC-3	(14)	DOC-1-F	(73)
	DJ-10-L	(9)	DJA-11-L	(9)					DJ-27-L	(7)	DJA-24-L	(7)					DOC-2-R	(23)
Jordan, E.....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1-F	(73)
																	DOC-2-R	(23)
Jordan, G, T.....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1-F	(73)
																	DOC-2-R	(23)
Jordan, JE, JJ.....(1928–29)	DJ-18	(7)	.....		DJB-7	(7)	DJC-1	(22)	DJ-32	(7)	.....		DJB-7	(7)	DJC-1	(22)	DOC-2	(23)
Kissel, 6-80 (1926); 8-90.....(1928)	DJ-18	(7)	.....		DJB-7	(7)	DJC-1	(22)	DJ-32	(7)	.....		DJB-7	(7)	DJC-1	(22)	DOC-2	(23)
Kissel, 8-75 (1925-26-27); 6-55 (1926–27), 8-65 (1927); 8-80.....(1928)	DJ-1-R	(13)	DJA-1-R	(13)	DJB-1	(17)	DJC-1	(22)	DJ-33-R	(9)	DJA-20-R	(9)	DJB-1	(17)	DJC-1	(22)	DOC-1-F	(73)
	DJ-39-L	(13)	DJA-2-L	(13)					DJ-23-L	(9)	DJA-21-L	(9)					DOC-2-R	(23)
Kissel, 6-70.....(1928)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-27	(7)	DJA-24	(7)	DJB-6	(12)	DJC-3	(14)	DOC-2	(23)
	DJ-10-L	(9)	DJA-11-L	(9)														
Kissel, 6-73 (Die Cast Shoes).....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Kissel, 8-95 (Die Cast Shoes).....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Kissel, 126 (3 Piece Pressed Steel Shoes).....(1929)	DJ-19	(3)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-19	(4)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Kissel, 8-126 (Channel Shoes).....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
McFarlan, Light 6 (1925-26); TV6 (1925-26-27-28); 8 in Line.....(1926–27–28)	DJ-18	(7)	.....		DJB-7	(7)	DJC-1	(22)	DJ-32	(7)	.....		DJB-7	(7)	DJC-1	(22)	†DOC-4	(7)
																	DOC-2	(23)
Moon, London, Metropolitan, Newport (1925), Series A (1925-26-27-28).....(1926–27–28–29)	DJ-1-R	(13)	DJA-1	(13)	DJB-1	(17)	DJC-1	(22)	DJ-23-R	(9)	DJA-20-R	(9)	DJB-1	(17)	DJC-1	(22)	DOC-2	(23)
	DJ-39-L	(13)	DJA-2	(13)					DJ-33-L	(9)	DJA-21-L	(9)						
Moon, 6-60, 6-62, 6-72.....(1926–27–28–29)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-27	(7)	DJA-24	(7)	DJB-6	(12)	DJC-3	(14)	DOC-1	(73)
	DJ-10-L	(9)	DJA-11-L	(9)														
Moon, 8-80, 8-82.....(1928–29)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-27	(7)	DJA-24	(7)	DJB-6	(12)	DJC-3	(14)	DOC-1	(73)
	DJ-10-L	(9)	DJA-11-L	(9)														
Moon, 6-72 Int. Brakes, 6-72, 6-77, 8-92.....(1929–30)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Paige, 21 (1924-25); 24 (1926); 6-70.....(1925–26)	DJ-1-R	(13)	DJA-1	(13)	DJB-1	(17)	DJC-1	(22)	DJ-31	(3)	DJA-30	(3)	DJB-1	(17)	DJC-1	(22)	DOC-2	(23)
	DJ-39-L	(13)	DJA-2	(13)														
Paige, 8-85.....(1927–28)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-34	(2)	DJA-33	(2)	DJB-6	(12)	DJC-3	(14)	DOC-1	(73)
	DJ-10L	(9)	DJA-11-L	(9)														
Paige, 6-45 After Chassis 320537 6-65 After Chassis 167138 6-75 After Chassis 117138.....(1927–28)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-34	(2)	DJA-33	(2)	DJB-6	(12)	DJC-3	(14)	DOC-1	(73)
	DJ-10-L	(9)	DJA-11-L	(9)														
Peerless, 6-80.....(1926)	DJ-1-R	(13)	DJA-1-R	(13)	DJB-1	(17)	DJC-1	(22)	DJ-33-R	(9)	DJA-20-R	(9)	DJB-1	(17)	DJC-1	(22)	DOC-2	(23)
	DJ-39-L	(13)	DJA-2-L	(13)					DJ-23-L	(9)	DJA-21-L	(9)						
Peerless, 60.....(1927)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-27	(7)	DJA-24	(7)	DJB-6	(12)	DJC-3	(14)	DOC-1	(73)
	DJ-10-L	(9)	DJA-11-L	(9)														
Peerless, 80, 90.....(1927–28)	DJ-1-R	(13)	DJA-1-R	(13)	DJB-1	(17)	DJC-1	(22)	DJ-23-R	(9)	DJA-20-R	(9)	DJB-1	(17)	DJC-1	(22)	DOC-1	(73)
	DJ-39-L	13)	DJA-2-L	(13)					DJ-33-L	(9)	DJA-21-L	(9)						
Peerless, 61.....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Peerless, 81.....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Peerless, 91.....(1928–29)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Peerless, 8-125 (Channel Shoes).....(1929–30)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Plymouth.....(1928–29)	DJ-40	(3)	DJA-9	(3)	DJB-2	(47)	DJC-4	(7)	DJ-40	(6)	DJA-9	(6)	DJB-2	(52)	DJC-4	(7)	DOC-1	(73)
Reo, Flying Cloud Series A.....(1927–28)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Reo, Wolverine B.....(1927)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Reo, Flying Cloud (1928); Master.....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Reo, Wolverine B (1928); Mate.....(1929)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Stutz, 6.....(1925)	DJ-18	(7)	.....		DJB-7	(7)	DJC-1	(22)	DJ-32	(7)	.....		DJB-7	(7)	DJC-1	(22)	DOC-4	(7)
Stutz, AA.....(1926–27)	DJ-19	(3)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-19	(4)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Stutz, BB.....(1927–28)	DJ-19	(3)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-19	(4)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Stutz, L (Channel Shoes).....(1929)	DJ-20	(1)	DJA-7	(2)	DJB-5	(5)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Stutz, M.....(1929)	DJ-21	(1)	DJA-19	(1)	DJB-8	(1)	DJC-7	(1)	DJ-20	(1)	DJA-7	(1)	DJB-5	(1)	DJC-2	(46)	DOC-1	(73)
Velie, 59 (1925-26); 60.....(1925–26–27)	DJ-1-R	(13)	DJA-1-R	(13)	DJB-1	(17)	DJC-1	(22)	DJ-35-R	(1)	DJA-34-R	(1)	DJB-1	(17)	DJC-1	(22)	DOC-2	(23)
	DJ-39-L	(13)	DJA-2-L	(13)					DJ-25-L	(1)	DJA-35-L	(1)						
Velie, 6-50.....(1927–28)	DJ-9-R	(9)	DJA-10-R	(9)	DJB-6	(12)	DJC-3	(14)	DJ-27	(7)	DJA-24	(7)	DJB-6	(12)	DJC-3	(14)	DOC-1	(73)
	DJ-10-L	(9)	DJA-11-L	(9)														
Velie, 66, 77, 88.....(1928)	DJ-2	(41)	DJA-3	(44)	DJB-2	(47)	DJC-2	(45)	DJ-2	(42)	DJA-3	(46)	DJB-2	(52)	DJC-2	(46)	DOC-1	(73)
Wills Ste. Claire.....(1926)	‡DJ-18	(7)	.....		DJB-7	(7)	DJC-1	(22)	‡DJ-32	(7)	.....		DJB-7	(7)	.....		‡DOC-2	(23)
	●DJ-22	(1)	.....		DJB-1	(17)			●DJ-22	(1)	.....		DJB-1	(17)	DJC-1	(22)	●DOC-4	(7)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts.

The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

* 1,000 cars between serials 63935 and 65035 were equipped with Eaton axles using Wheel Cylinder assembly DJ-41 (Piston cup DJB-1 and Piston Boot DJC-1)
† For ⅝" frame hose bracket.
‡ Used on Timken Axles.
● Used on Eaton Axles.

ABBREVIATIONS:
F. —Front.
R. —Rear.
Lf. —Left Side.
Rg. —Right Side.

Digitized by Google

MOLDED BRAKE LINING SETS

Passenger Cars from 1925 to 1930, Inclusive

Showing, Not CHILTON NUMBERS, But Actual Manufacturers' Numbers and Names of Molded Brake Lining Producers

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the molded brake lining is needed.
2. Follow this line across to the column under the make of brake lining you want. The number you find here is that manufacturer's number for the molded brake lining set you want.
3. Look up and down this same column for the same number. Wherever you find it in the same vertical column you have interchangeable sets of this same make. The car make and model opposite tell you where it is used—and suggest where to get it.

In this table, the same number in the **same vertical** column always means interchangeability. All numbers in the **same horizontal** column, opposite any car model (whether they are the same or not) are interchangeable. They give you the corresponding number of each of the 19 manufacturers shown, for that particular car.

NOTE: In Columns, F = Front; R = Rear

Passenger Car Make, Model and Year	Allbestos Corp.	All-Traffic Durwyllan Co.	American Brake Materials Corp.	Anchor Packing Co.	Asbestos Textile	Emsco Asbestos Co.	Ferodo and Asbestos, Inc.	Gatke, Thomas L.	Johns-Manville Co.	Keasbey & Mattison Co.	Multibestos Co.	Raybestos-Manhattan, Inc.	Russell Mfg. Co.	Scandinavia Belting Co.	Southern Friction Fabric Co.	Thermoid Rubber Co.	United States Asbestos Co.	U. S. Rubber	Wellman Co.
Auburn 6-66.....(1927)	.....	.....	62003R	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	101	.....	.....	.....
Auburn 8-88.....(1927)	.....	.....	51501F 62004R	.....	.....	.....	.....	.....	.....	101	.....	.....	.....	.....	.....	101	.....	101	.....
Auburn 76.....(1928)	101 115	.....	51502F 61601	101	101	101	101	1101	101	101	203	101	1354	101	101	101	101	101	101
Auburn 88.....(1928)	101 115	.....	61601	101	101	101	101	1101	101	.....	203	101	1354	101	101	101	101	101	101
Auburn 115.....(1928)	102 109	.....	61625	102	109	102	102	1102	102	102	.....	102	1216	102	102	102	102	102	102
Auburn 6-80.....(1929)	101 115	G-42 H-42	61617	101	101	101	101	1115	101	101	203	101	1224	101	101	101	101	101	101
Auburn 8-90.....(1929)	101 115	G-42 H-42	61617	101 115	101 115	101 115	101 115	1115	101 115	101 115	203	101 115	1224	101 115	101 115	101 115	101 115	101 115	101 115
Auburn 120.....(1929)	102 109	G-50 H-50	61634	102	109	102	102	1109	102	115	204	102	1508	102	102	102	102	102	102
Auburn 6-85.....(1930)	.....	G-84	61617	115	115	101	115	1101	101 115	101	203	115	1224	115	.....	101	115	101	101
Auburn 8-95.....(1930)	.....	G-84	61617	115	115	101	115	1101	101 115	115	203	115	1224	115	.....	101	115	101	101
Auburn 125.....(1930)	.....	G-100	61634	109	109	101	.....	1102	102	102	204	109	1216	109	.....	102	109	102	102
Austin.....(1930)	.....	.....	.....	553	533	.....	553	1553	553	553	.....	553	.....	553	.....	.....	553	553	553
Blackhawk L-6.....(1929)	.....	H-146	.....	122	122	122	.....	1122	122	.....	.....	122	.....	122	.....	.....	122	122	.....
Blackhawk L-8 .....(1929)	.....	H-146	.....	122	122	122	.....	1122	122	.....	.....	122	1508	122	.....	.....	122	122	.....
Blackhawk L-6.....(1930)	.....	H-141	.....	122	122	122	122	1122	122	722	.....	122	.....	122	.....	.....	122	.....	122
Blackhawk L-8.....(1930)	.....	H-141	.....	122	122	122	122	1122	122	720	.....	122	.....	122	.....	.....	122	.....	122
Buick Std. 115.....(1927)	.....	.....	61604	.....	.....	.....	.....	1349	.....	.....	.....	349	1362	.....	.....	.....	349	349	.....
Buick Master 120.....(1927)	.....	.....	62006	.....	.....	.....	.....	1350	.....	.....	.....	350	1363	.....	.....	.....	350	350	.....
Buick Master 128.....(1927)	.....	.....	62006	.....	.....	.....	.....	1350	.....	.....	.....	350	1363	.....	.....	.....	350	350	.....
Buick Stand. 115.....(1928)	.....	.....	61604	.....	.....	.....	.....	1349	.....	.....	.....	349	1362	.....	.....	.....	349	349	.....
Buick Master 120.....(1928)	.....	.....	62006	.....	.....	.....	.....	1350	.....	.....	.....	350	1363	.....	.....	.....	350	350	.....
Buick Master 128.....(1928)	.....	.....	62006	.....	.....	.....	.....	1350	.....	.....	.....	350	1363	.....	.....	.....	350	350	.....
Buick 116.....(1929)	.....	H-155	61604	349	.....	.....	.....	1349	.....	.....	.....	349	1362	.....	.....	.....	349	349	.....
Buick 121, 129.....(1929)	.....	K-166	62006	350	.....	.....	.....	1350	.....	.....	.....	350	1363	.....	.....	.....	350	350	.....
Buick 40.....(1930)	.....	H	61660	533F	534R 533F	227	533F 544R	1533F 1534R	533F 544R	533 534	.....	533F 534R	1236	534R 533F	.....	.....	533F 534R	533F 544R	533F 534R

Digitized by Google

Buick 50 and 60 (1930)			620123	533F	535F 536R	536R	535F 536R	1535F 1536R	535F 536R	535 536		535F 536R	1247	535F 536R			535F 536R	535F 536R	535F 536R
Buick 8-50 (1930)					534R 533F	227			227	535		227		534R 533F					227
Buick 8-60 (1930)					535F 536R	533F 533R			553F 554R	536		533		535F 536R					
Buick 8-80, 8-90 (1930)						535F 536R			535F 536R	535 536		535							
Cadillac 314 (1927)	329		62401R 62204F	329F	329F	329F		1329F				329F	1337F 1398R	329F			329F	329F	
Cadillac 341A (1928)			62268R 62206F	328F	326F	328F						328F	1477				328F	328F	
Cadillac 341 (1929)		N-90	62267	333R	333R	326F 333R		1326F 1333R				333R	1477	326F 333R				326F 333R	
Cadillac 353 (1930)		N-95	62267		326F 326R	326FR	326	1326	326	326		326	1560	326F 326R			326F 326R	326	326
Cadillac 452 (1930)		N-95	62267		326F 326R	326FR	326	1326	326	333		326	1516	326			326F 326R	326	
Chandler Spec. 6 (1927)	361							1361	361										
Chandler Std. 6 (1927)	357							1357	357										
Chevrolet (1928)	335 351		62011R 51401F	335R 351R	352F	313F	313F		313 335		206	351R 335R	1333F		313F	313AF	335R	313 335	313F
Chevrolet (1929)	313 352 336	D-35 K-61	62089R 51401F	336R	352F	313F	313F	1313F 1336R	313F 336R	313F	206		1333F	352F	313F	313AF 336AR	313F 352F	313F 336R	313F
Chevrolet (1930)		D-35 K-61	61423	313F	548	548	548	1548 1549	548	548		548	1577	548		548	548	548	548
Chrysler 50 (1927)			61613										1472R						
Chrysler 60 (1927)			61409										1308						
Chrysler 70 (1927)			61409										1308						
Chrysler 62 (1928)			61409								219		1308						
Chrysler 72 (1928)			61409								219		1308						
Chrysler 80 (1928)	103		61615	103			103	1103		103	220	103	1394		103	103	103	103	103
Chrysler 65 (1929)	105		61611		105	105	105	1105	105	105	219	105	1446	105	105	105	105	105	105
Chrysler 75 (1929)	105		61611		105	105	105	1105	105	105	219	105	1447	105	105	105	105	105	105
Chrysler Imp. 80 (1929)	103		61611	103	103	103	103	1103	103	103	220	103	1539		103	103	103	103	103
Chrysler Six (1930)				104	104	104	104	1104	104	104	218	104		104		104			
Chrysler 66 (1930)		E-81		104	104	104	104	1104	104	104	218	104	1551	104		104		104	104
Chrysler 70 (1930)		H-109	61659	105	105	105	105	1105	105	105	219	105	1553	105		105		105	105
Chrysler 77 (1930)		H-109	61659	105	105	105	105	1105	105	105	219	105	1553	105		105		105	105
Chrysler Imp. 80 (1930)			61659	103	103	103	103	1103	103	103	220	103		103		103		103	103
Chrysler 8 (1930)					104	101		1104	103	872				104		101			101
Chrysler Imp. 8 (1930)					104	103		1103	103	872		103		104		103			103
Cord L-29 (1930)			61659 62263	138F	138F 103R	138F 103R	138F 103R	1138F 1103R	138F 103R	103R 138F		138F 103R	1572 1574	103R 138F		103	103R 138F	138F 103R	138F 103R
Cunningham V-6 (1927)					202			1202		202	213				202				202
Cunningham V-7 (1927)	202				202	202		1202	202	202	213	202	1221	202	202	202A	202	202	202
Cunningham V-7 (1928)	202			202	202	202		1202	202	202	213	202	1221	202	202	202A	202	202	202
Cunningham V-8 (1928)				202	212	202		1202	202	202	213	202	1221	202	202	202A	202	202	202
Cunningham V-8 (1929)	202			202	202	202		1202	202	202	213	202	1221	202	202	202A	202	202	202
Cunningham V-9 (1930)		R139-8	2448	232	232	232	232		232	232		232	1592	232		231	232		
De Soto (1929)	104		61403	104	104	104	104	1104	104	104	218	104	1445	104	104	104	104	104	104
De Soto Six (1930)		E-81	61403	104	104	104	104	1104	104		218	104	1551	104		104	104	104	104
De Soto 8 (1930)		E-81		104	104	104	104	1104	104		218	104	1551	104		104	104	104	104
Dodge Senior 6 (1927)	102 109				102	102			102	102	204	102		102	102	102		102	102
Dodge Senior 6 (1928)	102 109		61625	102	102	102		1109	102	102	204	102	1208	102	102	102	102	102	102
Dodge 4-128 (1928)	401			401		401	401	1401	401		217	401		408			401	401	401
Dodge Standard 6 (1928)	401		62020	401	401	401	401	1401	401	401	217	401	1315	401	401	401	401	401	401
Dodge Victory 6 (1928)	101 115		61601	101	101	101	101	1115	101	101	203	101	1224	101	101	101	101	101	101
Dodge Bros. DA-6 (1929)	115				115	115	115	1115	115	115	266	115	1527	115	115	115	115	115	115
Dodge Six (1930)		H-56	61403		115	101	115	1115	115			101	1527	115		115	115	115	115
Dodge DD-6 (1930)		E-84		104	104	104	104	1104	104	104	218	104	1551	104		104	104	104	107
Dodge DC-8 (1930)		H-90		101	101	101	101	1101	101	115	203	101	1224	101		101	101	101	101
Duesenberg (1927)	116		82202	116	116	116		1116	116	116		116		116	116		116	116	116
Duesenberg (1929)	330		82201	330		330		1330	330			330		330			330	330	
Duesenberg J (1930)		0-64		330	330		330	1116	116	330		330		330			330	116	116
Du Pont G (1929)			82204						117								117		
Du Pont G (1930)			82227	117	117		117	1117	117	117		117	1530	117		117		117	117
Durant 55 (1928)	203		51403		203	203		1203	203	203	208	203	1311	203	203	203B	203	203	203
Durant 4 (1928)			51403	203	203							203	1311					203	
Durant 65 (1928)	203		51403		203	203	203	1203	203	203	208	203	1311	203	203	203B	203	203	203
Durant 75 (1928)	204		61624		204	204	204		204	204	211	204	1507	204	204	204B	204	204	204
Durant 40 (1929)	209	D-119		209	209	203 209		1209	209			209	1501				209	209	
Durant 60 (1929)	209	D-99	51403	209	203	203		1209	209			203	1501	203		203B	209	203	
Durant 66 (1929)	209		51403	203	203	203		1209	209			203	1501	203		203B	209	203	
Durant 70 (1929)	204 226		61624	226	226	204		1226	226		211	226	1507	204		204B	204 226	226	
Durant 614 (1930)		E-119	61422	404	404		404	1404	404	404		404	1587	404		404	404	404	404
Durant 617 (1930)		U-153	61664	406	406		406	1406	406	406		406		406		406	406	406	406

Digitized by Google

MOLDED BRAKE LINING SETS—Continued

Passenger Car Make, Model and Year	Allbestos Corp.	All-Traffic Durwyllan Co.	American Brake Materials Corp.	Anchor Packing Co.	Asbestos Textile	Emsco Asbestos Co.	Ferodo and Asbestos, Inc.	Gatke, Thomas L.	Johns-Manville Co.	Keasbey & Mattison Co.	Multibestos Co.	Raybestos-Manhattan, Inc.	Russell Mfg. Co.	Scandinavia Belting Co.	Southern Friction Fabric Co.	Thermoid Rubber Co.	United States Asbestos Co.	U. S. Rubber	Wellman Co.
Elcar 120.....(1928)	.....	.....	.....	.....	.....	102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elcar 75.....(1929)	101 115	H-97	61601	101	.....	101	.....	1115	101	.....	.....	101	1224	101	.....	101	101	101	.....
Elcar 95, 96.....(1929)	102 109	H-103	61625	102	102	102	.....	1109	102	.....	.....	102	1216	102	.....	102	102	102	.....
Elcar 120.....(1929)	102 109	.....	61625	102	102	102	.....	1109	102	.....	.....	102	1216	102	.....	102	102	102	.....
Elcar 75.....(1930)	.....	.....	61601	101	101	101	101	1101	101 115	101	203	101	1224	101	.....	101	.....	101	101
Elcar 75A.....(1930)	.....	H-87	.....	.....	101	.....	.....	1115	101 115	101	.....	101	1224	101	.....	115	.....	.....	.....
Elcar 95 and 96.....(1930)	.....	H-103	61625	102	102	102 109	102	1109	102 109	109	.....	109	1216	102	.....	102	109 102	102	102
Elcar 120.....(1930)	.....	.....	61625	109	102	102 109	102	1109	102 109	109	.....	109	1216	102	.....	102	109 102	102	102
Elcar 130, 140.....(1930)	.....	.....	61625	109	102	.....	102	1102	102	102	.....	109	1216	102	.....	102	109 102	102	102
Erskine 6.....(1927)	203	.....	51403	203	203	203	.....	1203	203	203	210	203	.....	203	203	203A	203	203	203
Erskine 51.....(1928)	203	.....	51403	.....	203	203	.....	1203	203	203	208	203	1209	203	203	203B	203	203	203
Erskine 52.....(1929)	203	D-119	51403	.....	203	203	.....	1203	203	203	208	203	1311	203	203	203B	203	203	203
Erskine 53.....(1930)	.....	D-108	.....	233	233	203	233	1233	232	.....	235	203	1596	233	.....	233	233	233	233
Essex.....(1928)	203	.....	61627R 51403F	203	203	203	203	1203	203	203	208	203	1311	203	203	203B	203	203	203
Essex Challenger.....(1929)	209	D-73	51402	.....	209	209	209	1209	209	209	223	209	1501	209	209	209A	209	209	209
Essex Super Six.....(1930)	.....	D-98	51402	203	203	203	203	1209	209	203	223	209	1501	203	.....	209	209	209	209
Falcon-Knight.....(1927-28)	204	.....	61624	204	204	204	.....	1204	204	204	211	204	1218	204	204	204A	204	204	204
Flint 60.....(1927)	135	.....	.....	.....	135	.....	.....	1135	.....	.....	.....	.....	1336	.....	.....	.....	.....	.....	.....
Flint 80.....(1927)	135	.....	.....	.....	135	.....	.....	1135	.....	.....	.....	.....	1336	.....	.....	.....	.....	.....	.....
Ford.....(1928)	310 380	.....	61401	319R	310	310	310	1310	310	310	207	310	1334	310	310	310A	310	.....	310
Ford.....(1929)	310 380	.....	61401	323	310	310	310	1310	310	310	207	310	1334	310	310	310A	310	.....	323
Ford A.....(1930)	.....	E-112	61401	310	310	.....	310	1310 1380	310	310	207	310	1334	310	.....	310	310	310	310
Franklin Ser. 12.....(1928)	102 108	.....	61625R 61622F	108	108	108	108	1108	108 102	108	209	108	1226	108	108	108F 108R	108	108	.....
Franklin 130.....(1929)	126 129 109	.....	61625	126R	129F 126R	129F 126R	.....	1184	109	108	209	129F 126R	1535	184	108	129F 126R	184	129F 126R	.....
Franklin 135, 137.....(1929)	126 129 109	.....	61625	129F	184	129F 126R	.....	1109	129F 126R	108	.....	129F 126R	1535	184	108	129F 126R	129F 126R	129F 126R	.....
Franklin 145.....(1930)	.....	H-134	61634	141	.....	.....	141	1141	141	.....	141	141	.....	141	.....	.....	141	141	141
Franklin 147.....(1930)	.....	H-134	61634	141	141	.....	141	1141	141	.....	141	141	.....	141	.....	.....	141	141	141
Gardner 80.....(1927)	308	.....	51404	.....	308	.....	.....	.....	.....	.....	.....	.....	1207	.....	.....	.....	.....	.....	.....
Gardner 90.....(1927)	308	.....	51506	.....	308	.....	.....	.....	.....	.....	.....	.....	1222	.....	.....	.....	.....	.....	.....
Gardner 85.....(1928)	115 101	.....	61601	.....	308	101	101	1115	101	101	203	101	1354	101	101	101	101	101	101
Gardner 95.....(1928)	102 109	.....	61625	.....	109	102	102	.....	102	102	204	102	1216	102	102	102	102	102	102
Gardner 120.....(1928)	.....	.....	61601	.....	101	101	101	1115	101	101	203	101	1354	.....	101	101	.....	101	101
Gardner 125.....(1929)	115 101	H-87	61601	101	101	101	101	1115	101	101	203	101	1354	101	101	101	101	101	101
Gardner 130.....(1929)	102	H-102	61625	102	102	102	102	1109	102	102	204	102	1216	102	102	102	102	102	102
Gardner 136.....(1930)	.....	H-87	61617	115	115	115	115	1101	101	115	203	115	1224	115	.....	101	101	101	101
Gardner 140.....(1930)	.....	.....	.....	101	101	.....	101	1101	101	101	203	101	1224	101	.....	101	101	101	101
Gardner 150.....(1930)	.....	H-101	61634	109	109	102 109	109	1102	126	109	.....	109	1216	109	.....	102	109	102	126
Graham-Paige 610.....(1928)	.....	.....	61408	101	101	101	101	.....	.....	101	203	101	1224	101	101	101	101	101	101
Graham-Paige 614.....(1928)	.....	.....	61409	114	114	114	114	.....	.....	114	.....	114	1216	114	114	114	114	114	114
Graham-Paige 619.....(1928)	114	.....	61659	114	114	114	114	1114	114	114	205	114	1356	114	114	114	114	114	114
Graham-Paige 629.....(1928)	114	.....	61659	114	114	114	114	1114	114	114	205	114	1356	114	114	114	114	114	114
Graham-Paige 835.....(1928)	114	.....	61659	114	114	114	114	1114	114	114	205	114	1356	114	114	114	114	114	114
Graham-Paige 612.....(1929)	101 115	H-88	61601	101	101	101	101	1115	101	101	205	101	1224	101	101	101	101	101	101
Graham-Paige 615.....(1929)	114	H-107	61625	114	114	114	114	1114	114	114	204	114	1216	114	114	114	114	114	114

Digitized by Google

Graham-Paige 621 (1929)	114	H-107	61659	114	114	114	114	1114	114	114	205	114	1216	114	114	114	114	114	114
Graham-Paige 827 (1929)	114	H-107	61659	114	114	114	114	1114	114	114	205	114	1216	114	114	114	114	114	114
Graham-Paige 837 (1929)	114	H-107	61659	114	114	114	114	1114	114	114	205	114	1216	114	114	114	114	114	114
Graham Std. 6 (1930)	.....	H-88	61601	109	101	.....	101	1101	101	109	203	115	1224	101	.....	101	115	101	102
Graham Spec. 6 (1930)	.....	H-107	61625	102	102	.....	.....	1102	102	109	.....	109	1224	102	.....	102	109 102	102	102
Graham Spec. 8 (1930)	.....	H-107	61625	102	102	.....	.....	1102	102	109	.....	109	1216	102	.....	102	109 102	102	102
Graham Std. 8 (1930)	.....	H-107	61625	109	102	.....	.....	1102	102	109	.....	109	1216	102	.....	102	109 102	102	102
Graham Cust. 8 (1930)	.....	H-107	61659	.....	114	.....	.....	1102	114	109	.....	.....	1216	114	.....	102	.....	.....	.....
Hudson Super 6 (1927)	201	.....	62408	.....	201	201	.....	1201	201	201	214	201	1234	201	201	201A	201	201	201
Hudson Super 6 (1928)	201	.....	62032	.....	201	201	201	1201	201	201	214	201	1234	201	201	201A	201	201	201
Hudson S 6-S (1928)	201	.....	.....	.....	201	201	.....	1201	201	201	214	201	1219	201	201	.....	201	201	201
Hudson (1929)	210	K-61	62091	210	210	210	210	1210	210	210	224	210	1503	210	210	210A	210	210	210
Hudson Gt. 8 (1930)	.....	D107	61424	210	233	.....	233	1233	233	233	.....	233	1503	233	.....	233	233	233	233
Hupmobile Century 6 (1927)	.....	.....	.....	401	204F	.....	.....	.....	204F 341R	204F	.....	204F 341R	.....	204F	204F	.....	.....	204F 341R	204F
Hupmobile Century 8 (1928)	401	.....	.....	.....	401	401	401	1401	401	401	217	401	.....	.....	401	401	401	.....	401
Hupmobile Century 6 (1928)	401	.....	.....	204F	401	401	401	1401	401	401	217	401	.....	401	401	401	401	401	401
Hupmobile Big 8 (1928)	401	.....	.....	.....	.....	401	.....	.....	.....	401	217	.....	.....	401	401	.....	401	401	401
Hupmobile A (1929)	401	.....	.....	.....	401	401	401	.....	.....	401	217	401	1315	401	401	.....	.....	401	401
Hupmobile M (1929)	401	.....	.....	.....	401	401	401	.....	.....	401	217	401	1315	401	401	.....	.....	401	401
Hupmobile S (1930)	.....	.....	61425	402	402	402	402	1402	402	402	.....	402	1505	402	.....	102	402	402	401
Hupmobile C (1930)	.....	.....	62099	407	407	.....	407	1407	407	407	.....	407	1573	407	.....	407	407	409	407
Hupmobile Century 6 (1930)	.....	.....	.....	401	401	401	401	1401	401	401	.....	.....	1315	401	.....	401	401	.....	.....
Hupmobile Century 8 (1930)	.....	.....	.....	401	401	401	401	1401	401	401	.....	.....	1315	401	.....	401	401	.....	.....
Hupmobile H, U (1930)	.....	.....	.....	405	405	.....	405	1405	405	405	.....	405	.....	405	.....	405	405	405	405
Jordan JE A-8 (1928)	.....	.....	62038	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1359	.....	.....	.....	.....	.....
Jordan E (1929)	109	.....	61634	109	109	109	.....	1109	109	.....	.....	109	1483	.....	.....	.....	109	.....	.....
Jordan G (1929)	109	.....	61634	109	109	109	.....	1109	109	.....	.....	109	1483	.....	.....	.....	109	.....	.....
Jordan E (1930)	.....	.....	.....	109	109	109	109	1109	109	109	.....	109	1508	109	.....	109	109	109	109
Jordan 80 (1930)	.....	H-158	61634	109	109	109	109	1109	109	.....	.....	109	1508	109	.....	109	109	109	109
Jordan 90 (1930)	.....	H-158	61634	109	109	109	109	1109	109	.....	.....	109	1508	109	.....	109	109	109	109
Jordan Z Speedway (1930)	.....	H-155	.....	146	146	.....	109	1146	146	146	.....	146	.....	146	.....	109	109	146	146
Kissel 6-70 (1928)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	204	.....	1406	.....	.....	.....	.....	.....	.....
Kissel 6-55 (1928)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	204	.....	.....	.....	.....	.....	.....	.....	.....
Kissel 8-80 (1928)	.....	.....	62040	.....	.....	.....	.....	.....	.....	.....	204	.....	1407	.....	.....	.....	.....	.....	.....
Kissel 8-90 (1928)	.....	.....	62024	.....	.....	.....	.....	.....	.....	.....	204	.....	1408	.....	.....	.....	.....	.....	.....
Kissel 6-73 (1929)	101 115	H-66	61601	101	101	101	101	1115	101	101	203	101	1224	101	101	101	101	101	101
Kissel 8-95 (1929)	102 109	H-26 K-52	61625	102	102	102	102	1109	102	102	204	102	1216	102	102	102	102	102	102
Kissel 8-126 (1929)	109	H-34	61634	109	109	109	109	1109	109	109	.....	109	1483	109	109	.....	109	109	109
Kissel 6-73 (1930)	.....	H-56	.....	115	115	101 115	115	1101 1115	101	115	203	115	1224	115	.....	.....	101	101	101
Kissel 8-95 (1930)	.....	H-70	.....	102	102	102 109	102	1102 1109	102	102	204	102	1216	102	.....	.....	102	102	102
Kissel 8-126 (1930)	.....	H-80	.....	109	109	109	109	1109	109	109	.....	109	1508	109	.....	.....	109	102	109
La Salle (1927)	.....	.....	.....	.....	327F	328F	.....	.....	.....	.....	.....	328F	.....	.....	.....	.....	.....	.....	.....
La Salle (1928)	327 328 334	.....	.....	327F	328F	328F	.....	.....	.....	.....	.....	327F 334R	1481	327F 334R	.....	.....	327F 328F	327F 334R	.....
La Salle 328 (1929)	327 334	K-81	620132	334R	327F	327F 334R	.....	1327F 1334R	327F 334R	.....	.....	327F 334R	1481	327F 334R	.....	.....	327F 334R	327F	.....
La Salle 340 (1930)	.....	K-876	620132	327F	327F	.....	327	1327	327	327	.....	327	1563	327	.....	.....	327F 327R	327	327
Lincoln (1927)	208	.....	83002R	208	208	208	.....	1208	208	208	225	208	1476R	208	208	208A	208	208	208
Lincoln (1928)	208	.....	82405	208	208	208	.....	1208	208	208	225	208	1223	208	208	208B	208	208	208
Lincoln (1929)	208	.....	82405	208	208	208	.....	1208	208	208	225	208	1223	208	208	208B	208	208	208
Lincoln (1930)	.....	R-84	82405	208	208	208	208	1208	208	208	225	208	1223	208	.....	208	208	208	208
Locomobile Jr. 8 (1927)	204	.....	.....	.....	204	204	.....	1204	204	204	211	204	1218	204	.....	204A	204	204	204
Locomobile 8-80 (1927)	.....	.....	.....	.....	201	201	.....	.....	.....	201	.....	.....	1219	.....	.....	201A	.....	201	.....
Locomobile 90 (1927)	202	.....	.....	202	202	202	.....	1202	202	202	.....	202	1221	202	202	202A	202	202	202
Locomobile 8-70 (1928)	204	.....	61624	204	204	204	204	1204	204	204	211	204	1218	204	204	202A	204	204	204
Locomobile 8-80 (1928)	201	.....	62031	201	201	201	201	1201	201	201	214	.....	1219	201	201	201A	201	201	201
Locomobile 90 (1928)	202	.....	62015	202	202	202	202	1202	202	202	.....	202	1221	202	202	202A	202	202	202
Locomobile 8-80 (1929)	201	K-154	62032	201	201	201	.....	.....	201	.....	.....	201	1219	201	201	201A	201	201	201
Locomobile 86, 88 (1929)	201	K-154	62032	201	201	201	201	1201	201	201	.....	201	1219	201	201	201A	201	201	201
Locomobile 90 (1929)	.....	K-154	.....	202	202	202	.....	.....	.....	.....	.....	.....	1221	.....	202	202A	202	202	.....
Marmon Little 8 (1927)	204	.....	61624	204	204	204	.....	1204	204	.....	211	204	1211	204	204	204A	204	204	204
Marmon 75 (1927)	202	.....	62015	202	202	202	.....	1202	202	202	213	202	1221	202	202	202A	202	202	202
Marmon 68 (1928)	204	.....	61624	204	204	204	204	1204	204	204	211	204	1218	204	204	204A	204	204	204
Marmon E-75 (1928)	202	.....	62015	202	202	202	.....	1202	202	202	.....	202	1221	202	204	202A	202	202	202
Marmon 78 (1928)	204	.....	.....	204	204	204	204	1204	204	204	211	204	1218	204	204	204A	204	204	204
Marmon 68 (1929)	204	.....	61624	204	204	204	.....	1204	204	204	211	204	1218	204	204	204A	204	204	204
Marmon 78 (1929)	204	.....	.....	204	204	204	.....	1204	204	204	211	204	1218	204	.....	204A	204	204	204
Marmon Roosevelt (1930)	.....	D-98	51402	219	209	209	209	1209	209	209	223	209	1501	209	.....	209	209	209	209
Marmon Eight 69 (1930)	.....	D-106	61424	231	233	.....	233	1233	209	231	.....	233	1596	233	.....	233	233	233	233
Marmon Eight 79 (1930)	.....	K-122	62091	210	210	.....	210	1210	210	210	.....	210	1503	210	.....	210	210	210	210
Marmon Big Eight (1930)	.....	K-132	.....	231	231	.....	231	1231	231	231	.....	231	1569	231	.....	231	231	231	231
Nash Advanced 6 (1927)	301F 301R	.....	62420R 52002F	301F	301	301F	301F	1301	301F 301R	301F	200	301	1240F 1260R	301F	301F	301AF	301	301F 301R	301F

Digitized by Google

MOLDED BRAKE LINING SETS—Continued

Passenger Car Make, Model and Year	Allbestos Corp.	All-Traffic Durwyllan Co.	American Brake Materials Corp.	Anchor Packing Co.	Asbestos Textile	Emsco Asbestos Co.	Ferodo and Asbestos, Inc.	Gatke, Thomas L.	Johns-Manville Co.	Kesbey & Mattison Co.	Multibestos Co.	Raybestos-Manhattan, Inc.	Russell Mfg. Co.	Scandinavia Belting Co.	Southern Friction Fabric Co.	Thermoid Rubber Co.	United States Asbestos Co.	U. S. Rubber	Wellman Co.
Nash Spec. 6.....(1927)	304F 304R 305F 305R	.....	62050	304	304	304F	304F	1304	305F 305R	304F	202	304	1230F 1250R	304F	304F 304R	304AF	304 305	.....	304F 305R
Nash Light 6.....(1927)	302F 302R	.....	.....	302R	302	302F	302F	1302	302F 302R	302F	.....	302	1200F 1210R	302F	302F	302AF	302	302F 302R	302F
Nash Advanced 6.....(1928)	301F 301R	.....	62420R 52002F	301F	301	301F	301F	1301	301F 301R	301F	200	301	1240F 1260R	301F	301F	301AF	301	301F 301R	301F
Nash Special 6.....(1928)	304F 304R	.....	62049R 52001F	304	304	307F	307F	1304	304F 304R	304F	202	304	1230F 1250R	304F	304F 304R	304AF	304	304F 304R	304F 304R
Nash Standard 6.....(1928)	302F 302R	.....	61637R 51602F	304	302	302F	302F	1302	302F 302R	302F	201	302	1200F 1210R	302F	302F	301AF	302	302F 302R	302F
Nash Advanced.....(1929)	301F 301R	J-64 P-89	62420R 52002F	301F	301	301F	301F	1301	301F 301R	301F	200	301	1240F 1260R	301F	301F	301AF	301	301F 301R	301F
Nash Special.....(1929)	307F 307R	J-132	62049R 52001F	307	307	307F	307F	1307	307F 307R	304R	227	304	1468F 1469R	307F	304F 305R	304AF	307	307F 307R	304F 304R
Nash Standard 6.....(1929)	302F 302R	G-106	61637R 51602F	302	302	302F	302F	1302	302F 302R	302F	201	302	1541F 1210R	302F	302F	302AF	302	302F 302R	302F
Nash Single Ig. 6.....(1930)	.....	H-135	61667	403	403	.....	403	1403	403	403	.....	403	1585	403	.....	403	403	403	403
Nash Twin Ig. 6.....(1930)	.....	H-112	61667	210	210	.....	210	1226	226	231	233	226	1568	210	.....	226	210	226	226
Nash Twin Ig. 8.....(1930)	.....	.....	620115	231	231	.....	231	1231	231	231	232	231	1569	231	.....	231	231	231	231
Oakland AA.....(1928)	.....	.....	62033	.....	.....	.....	.....	.....	.....	.....	.....	.....	1315	.....	.....	.....	.....	.....	.....
Oakland AA.....(1929)	401	K-145	62033	401	401	401	401	1401	401	401	217	401	1315	401	401	401	401	401	401
Oakland 8.....(1930)	.....	H-135	61667	401	403	401	403	1403	403	403	.....	403	1585	403	.....	403	403	403	403
Oldsmobile 30.....(1927)	204 344 376	.....	61639R 61624F	401	.....	204F	.....	1204F 1344R	204F 344R	204F	215	.....	1502F 1487R	.....	204F	204AF	.....	204F 334R	204F
Oldsmobile F-28.....(1928)	204 344 376	.....	61639R 61624F	.....	344R	204F	204F	1204F 1334R	204F 344R	204F	215	204F 344R	1502F 1487R	204F	204F	204AF	204F 344R	204F 334R	204F
Oldsmobile F-29.....(1929)	204 344 376	H-139	.....	210	204F	204F	.....	1204F 1334R	204F 344R	.....	215	204F 304R	.....	204F	.....	204AF	204F 344R	204F 344R	.....
Oldsmobile F-30.....(1930)	.....	E-107	61424	233	233	.....	233	1233	233	204	.....	233	1596	233	.....	233	233	233	233
Packard 6.....(1927)	201 206	.....	62032	206	206 201	201	201	1206	201	201	214	201	1251	206	201	201A	201	201	201
Packard 8.....(1927)	202 205	.....	82002	202	205	202	.....	1202	202	205	.....	205	1243	202 205	205	202A	202	202	205
Packard 6.....(1928)	201	.....	62032	201	201	201	.....	1201	201	201	214	201	1219	201	201	201A	201 205	201	201
Packard 8.....(1928)	202 205	.....	62015	202	205	202	.....	1202	202	202	.....	205	1221	202 205	205	202A	202	202	202
Packard 533.....(1928)	201	.....	62032	201	201	201	.....	1201	201	.....	213	201	1219	201	.....	201A	201	201	.....
Packard 626.....(1929)	202	K-181	62015	.....	202	202	202	1202	202	.....	213	202	1221	202	202	202A	202	202	.....
Packard 633.....(1929)	202	K-181	62015	202	202	202	202	1202	202	.....	213	202	1221	202	202	202A	202	202	.....
Packard 640, 645.....(1929)	202	K-181	62015	202	202	202	.....	1202	202	.....	.....	202	1221	.....	202	202A	202	202	.....
Packard 726.....(1930)	.....	H-181	61658	228	228	.....	228	1228	228	228	.....	228	1565	228	.....	228	228	228	228
Packard 733.....(1930)	.....	H-181	61658	228	228	.....	228	1228	228	228	.....	228	1565	228	.....	228	228	228	228
Packard 740.....(1930)	.....	K-181	62015	202	202	.....	202	1202	202	202	213	202	1221	202	.....	202	202	202	202
Packard 745.....(1930)	.....	K-181	62015	202	202	.....	202	1202	202	202	213	202	1221	202	.....	202	202	202	202
Peerless 6-91.....(1928)	102 109	.....	61625	.....	.....	102	.....	1109	102	.....	.....	.....	1216	102	.....	102	102	102	.....
Peerless 6-61.....(1929)	101 115	.....	61617	101	101	101	101	1115	101	101	203	101	1224	101	101	101	101	101	101
Peerless 6-81.....(1929)	101 115	.....	61617	101	101	101	101	1115	101	101	203	101	1224	101	101	101	101	101	101
Peerless 6-91.....(1929)	102 109	.....	61625	102	102	102	102	1109	102	102	204	102	1216	102	102	102	102	102	102
Peerless 125.....(1929)	121	.....	61642	121	121	121	1121	.....	121	.....	.....	121	1216	121	.....	.....	121	121	.....
Peerless 61-A.....(1930)	.....	H-88	.....	115	101	.....	.....	1101 1115	101 115	115	203	115	1224	101	.....	101	101 115	101	101
Peerless. Std. 8.....(1930)	.....	.....	.....	.....	233	.....	.....	1233	233	231	.....	.....	1596	233	.....	233	.....	233	233
Peerless, Master 8.....(1930)	.....	.....	62091	.....	210	.....	.....	1210	210	231	224	210	1503	210	.....	210	.....	210	210
Peerless, Custom 8.....(1930)	.....	.....	620115	231	231	.....	231	1231	231	231	.....	231	1569	231	.....	231	231	231	231
Pierce-Arrow 36.....(1927)	4022 4023	.....	62601R 62208F	.....	312	312	.....	1312F 1526R	312F 526R	.....	.....	312	1528F 1531R	312	312	.....	312	312F 526R	312

Digitized by Google

Pierce-Arrow 80.....(1927)	311	.....	62091	.....	311	311	.....	1311	311	.....	.....	311	1335	311	311	.....	311	311	311
Pierce-Arrow 36.....(1928)	4022	.....	62601R	312	312	312	312	1312F	312F	312	.....	312	1528F	312	312	.....	312	312	312
	4023		62208F					1526R	526R				1531R						
Pierce-Arrow 81.....(1928)	311	.....	62091	311	311	311	311	1311	311	311	.....	311	1335	311	311	.....	311	311	311
Pierce-Arrow 133, 143.....(1929)	214	N-156	62229	214	214	214	214	1214	214	214	.....	214	1510	214	214	.....	214	214	214
Pierce Arrow 132.....(1930)	.....	N-196	62229	.....	214	.....	214	1212	212	214	228	214	1510	214	.....	.....	214	212	212
Pierce-Arrow 125, 139.....(1930)	.....	N-196	62229	214	214	.....	214	1214	212	214	228	214	1510	214	.....	.....	214	212	212
																		214	
Pierce-Arrow 126.....(1930)	.....	N-196	62229	214	214	.....	214	1214	212	214	228	214	1510	214	.....	.....	214	214	.....
Plymouth.....(1929)	.....	.....	61403	104	104	104	104	1104	104	104	218	104	1445	104	104	104	104	104	104
Plymouth.....(1930)	.....	E-81	61403	104	104	104	104	1104	104	.....	104	.....	1445	104	.....	104	104	104	104
Pontiac.....(1927)	351	.....	62011R	.....	.....	.....	.....	.....	.....	.....	.....	351R	.....	.....	.....	.....	351R	351R	.....
Pontiac.....(1928)	313	.....	62011R	313F	352F	313F	313F	1313F	313F	313F	206	313F	1333F	352F	313F	313AF	313F	313F	313F
	352		51401F					1335R	335R			335R					335R	335R	
	335 or 351																		
Pontiac Big 6.....(1929)	402	D-128	.....	402	402	402	402	1402	402	402	216	402	1505	402	402	402	402	402	402
Pontiac.....(1930)	.....	E-119	61422	404	404	.....	404	1404	404	404	.....	404	1587	404	.....	404	404	404	.....
Reo Flying Cloud.....(1927)	102	.....	61625	102	102	102	.....	1109	102	102	204	102	.....	102	102	102	102	102	102
	109																		
Reo Wolverine.....(1927)	101	.....	61601	101	101	101	101	1115	101	101	203	101	.....	101	101	101	101	101	101
	115																		
Reo Flying Cloud.....(1928)	102	.....	61625	102	102	102	.....	1109	102	102	204	102	1216	102	102	102	102	102	102
	109																		
Reo Wolverine.....(1928)	101	.....	61601	101	101	101	.....	1115	101	101	203	101	1213	101	101	101	101	101	101
	115																		
Reo Flying Cloud Master.....(1929)	.....	.....	.....	102	101	102	102	1109	109	102	204	102	1216	102	102	102	101	102	102
Reo Flying Cloud Mate.....(1929)	.....	.....	.....	102	101	101	101	1109	109	102	204	101	1216	101	102	102	101	101	101
Reo 15.....(1930)	.....	.....	61617	115	115	.....	115	1101	101	115	.....	115	1224	115	.....	101	115	101	101
Reo 20.....(1930)	.....	.....	61634	109	102	.....	102	1140	140	102	.....	109	1216	102	.....	.....	109	140	140
					109		109							109			102		
Reo 25.....(1930)	.....	.....	61634	102	102	.....	102	1140	140	102	.....	109	1216	102	.....	.....	109	140	140
					109		109							109			102	.....	
Rolls Royce N.P.....(1927)	529	.....	.....	.....	.....	.....	.....	1529R	529	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rolls Royce Si. G.....(1927)	529	.....	.....	.....	.....	.....	.....	1529R	529	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rolls Royce Phan.....(1928)	529	.....	82007R	.....	.....	.....	.....	1528F	528	.....	.....	.....	.....	1500	.....	.....	.....	.....	.....
	528		101601F					1529R	529										
Rolls Royce N.P.....(1929)	528	.....	.....	.....	.....	.....	.....	1528F	528	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	529							1529R	529										
Rolls Royce Si. G.....(1929)	529	.....	82007R	.....	.....	.....	.....	1529R	529	.....	.....	.....	1500	.....	.....	.....	.....	.....	.....
Rolls Royce Si. Gb.....(1930)	.....	.....	82007	.....	.....	.....	.....	1529	529	.....	.....	.....	1500	.....	.....	.....	.....	.....	.....
Rolls Royce N. Ph.....(1930)	.....	.....	101601	.....	.....	.....	.....	1528	528	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
									529										
Roosevelt.....(1929)	209	D-98	51402	.....	209	209	209	1209	209	209	223	209	1501	209	209	209A	209	209	.....
Star 4.....(1927)	.....	.....	.....	.....	203	.....	.....	.....	203	203	208	203	1311	.....	.....	.....	.....	203	.....
Star 6.....(1927)	.....	.....	.....	.....	203	.....	204	1204	.....	.....	.....	203	1311	.....	.....	.....	.....	.....	203
Star 4.....(1928)	203	.....	.....	203	203	203	203	1203	203	203	208	203	1311	203	203	203R	203	203	203
Stearns-Knight 6-85.....(1927)	201	.....	.....	.....	201	201	.....	1201	.....	.....	214	.....	.....	201	201	.....	.....	201	201
Stearns-Knight 8-85.....(1927)	208	.....	.....	.....	208	208	.....	1208	208	.....	.....	208	.....	208	208	.....	.....	208	208
Stearns-Knight G8-85.....(1927)	208	.....	.....	.....	208	208	.....	1208	208	.....	.....	208	.....	208	208	.....	.....	208	208
Steanrs-Knight KN-6.....(1928)	201	.....	.....	201	201	201	201	1201	.....	201	214	.....	1219	.....	201	201A	201	201	201
Stearns-Knight F-6-85.....(1928)	.....	.....	.....	.....	201	201	201	1201	.....	201	214	.....	.....	201	201	.....	.....	201	201
Stearns-Knight 8.....(1928)	208	.....	.....	208	208	208	208	1208	208	208	.....	208	1223	208	208	208A	208	208	208
Stearns-Knight H&J 8-90.....(1929)	.....	R-178	62061R	208	208	208	.....	1208	.....	.....	.....	208	1223	208	208	.....	208	208	208
Stearns-Knight M&N 6-80.....(1929)	.....	.....	62062F	.....	201	.....	.....	.....	.....	.....	214	.....	1219	.....	.....	.....	208	.....	208
Studebaker Big 6-120.....(1927)	379	.....	.....	.....	.....	.....	.....	1379F	379F	.....	.....	.....	.....	.....	.....	.....	.....	379F	.....
	383							1383R	383R									383R	
Studebaker Big 6-EP.....(1927)	379	.....	.....	.....	.....	.....	.....	1379F	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	383		62211R					1383R											
Studebaker Std. 6.....(1927)	311	.....	62065F	.....	.....	.....	.....	1311F	311F	.....	.....	.....	1314F	.....	.....	.....	.....	311F	.....
								1375R	348R				1228R					348R	
Studebaker Com.....(1928)	201	.....	62032	201	201	201	201	1201	201	201	.....	201	1314F	201	204	201A	201	201	204
													1228R						
Studebaker Dictator.....(1928)	204	.....	61624	204	204	204	204	1204	204	204	212	204	1217	204	204	204B	204	204	204
Studebaker Pres. 8.....(1928)	201	.....	62032	.....	201	201	201	1201	201	201	214	201	1219	201	204	201A	201	201	204
Studebaker Com. 6.....(1929)	204	H-135	.....	204	214	204	204	1204	204	204	212	204	1507	204	204	204B	204	204	204
Studebaker Com. 8.....(1929)	204	H-135	.....	204	204	204	204	1204	204	204	212	204	1507	204	204	204B	204	204	204
Studebaker Dictator.....(1929)	204	H-129	61624	203	204	204	204	1204	204	204	212	204	1311	204	204	204B	203	204	204
	203																		
Studebaker Pres.....(1929)	214	N-160	62229R	214	214	214	214	1214	214	214	228	214	1510	214	214	214A	214	214	214
			62032F																
Studebaker Dict. 6.....(1930)	.....	.....	51403	233	233	.....	233	1233	233	236	235	233	1596	233	.....	233	233	233	233
Studebaker Dict. 8.....(1930)	.....	.....	.....	233	233	203	233	1233	233	204	235	233	1596	233	.....	231	333	233	233
Studebaker Com. 6.....(1930)	.....	H-135	61624	204	204	204	204	1204	204	204	.....	204	1502	204	.....	204	204	204	204
Studebaker Com. 8.....(1930)	.....	H-135	.....	204	204	204	204	1204	204	204	.....	204	1502	.....	.....	204	204	204	204
Studebaker Six.....(1930)	.....	.....	.....	.....	.....	.....	.....	.....	233	204	.....	209	.....	.....	.....	.....	.....	.....	.....
Studebaker Pres.....(1930)	.....	N-128	62229	214	214	214	214	1214	214	214	.....	214	1510	214	.....	214	214	214	214
Stutz BB.....(1928)	109	.....	.....	109	109	109	109	1109	109	109	.....	109	1483	109	109	.....	109	109	109
Stutz Series M.....(1929)	4027	H-136	.....	.....	109	109	.....	1109	109	.....	.....	109	1483	109	.....	.....	109	109	.....
Stutz Series M.....(1930)	.....	H-136	.....	109	109	109	109	1109	109	109	.....	109	.....	109	.....	.....	109	109	109
Velie Standard 50.....(1928)	.....	.....	.....	.....	.....	102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

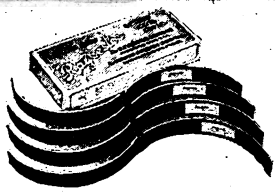
Digitized by Google

MOLDED BRAKE LINING SETS—Continued

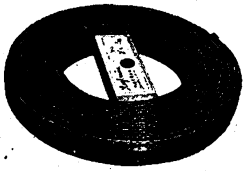
Passenger Car Make, Model and Year	Allbestos Corp.	All-Traffic Durwyllan Co.	American Brake Materials Corp.	Anchor Packing Co.	Asbestos Textile	Emsco Asbestos Co.	Ferodo and Asbestos, Inc.	Gatke, Thomas L.	Johns-Manville Co.	Keasbey & Mattison Co.	Multibestos Co.	Raybestos-Manhattan, Inc.	Russell Mfg. Co.	Scandinavia Belting Co.	Southern Friction Fabric Co.	Thermoid Rubber Co.	United States Asbestos Co.	U. S. Rubber	Wellman Co.
Velie 66.....(1928)	102 109	.....	61625	102	102	102	102	1109	102	102	204	102	1216	102	102	102	102	102	102
Velie 77.....(1928)	102 109	.....	61625	102	102	102	102	1109	102	102	204	102	1216	102	102	102	102	102	102
Velie 88.....(1928)	102 109	.....	61625	102	102	102	102	1109	102	102	204	102	1216	102	102	102	102	102	102
Viking V-29.....(1929)	.....	.....	62091	.....	210	210	.....	1210	.....	.....	.....	210	1503	210	.....	210A	210	.....	.....
Viking V-30.....(1930)	.....	.....	.....	210	210	210	210	1210	210	.....	224	210	1503	210	.....	210	210	.....	210
Whippet 4, Cvt.....(1927)	203	.....	.....	.....	203	203	.....	1203	203	203	211	203	.....	203	203	.....	203	.....	203
Whippet 6, Cvt.....(1927)	204	.....	.....	204	204	204	.....	1204	204	204	210	204	.....	204	203	204A	204	.....	204
Whippet 4, Cvt. 96.....(1928)	203	.....	62090R 51403F	211F	211F	203	203	1203	203	203	.....	203	1463F 1419R	203F	203	211AF	203	.....	203
Whippet 6, Cvt. 98.....(1928)	211 342 537 or 538	.....	.....	342F	211F	211F	203F	1211	211F 342R	203F	.....	203F 342R	1220F	211F	211F	211AF	203F 342R	.....	211F
Whippet 96A.....(1929)	.....	D-40 J-70	62090R 51408F	342F	211F	211F	211F	1211	211F 342R	211F	.....	211F	1220F	211F	211F	211AF	211F 342R	.....	211F
Whippet 98A.....(1929)	342 or 537 538 209	D-49 J-70	62090R 51402	209F	209F	209F	209F	1209F 1537R	211F 342R	209F	.....	209F	1384F	209F	209F	209AF	209F 342R	.....	209F
Whippet 96A.....(1930)	.....	.....	62090 51408	.....	209F	211F	.....	1211	211F 342R	211	236	.....	1607	209F	.....	311	211F 342R	211	211F 342R
Whippet 98A.....(1930)	.....	.....	51403	.....	209F	209F	209F	1209	211F 342R	342	.....	209F	1384	209F	.....	311	209F	211	211F 342R
Willys Knight 66A.....(1927)	.....	.....	62070 62072	.....	331F	.....	.....	.....	.....	.....	.....	.....	1475F	.....	.....	.....	.....	.....	.....
Willys Knight 70A.....(1927)	.....	.....	61647 61667	.....	358F	.....	.....	1358F4 1359R	358F 359R	.....	.....	.....	1489F	.....	.....	.....	.....	.....	.....
Willys Knight 66A.....(1928)	.....	.....	62070 62072	.....	.....	.....	.....	.....	.....	.....	.....	.....	1475F	.....	.....	.....	.....	.....	.....
Willys Knight 56.....(1928)	.....	.....	.....	204F	342R	204F 342R	204F	1204F 1537R	204F 342R	204F	.....	204F 342R	.....	204F	204F	204A	204F 342R	204F 342R	204F
Willys Knight 66B.....(1929)	.....	.....	.....	.....	209	.....	209	1210	210	209	223	209	1501	209	209	209A	209	209	209
Willys Knight 70B.....(1929)	204	H-65 J-70	62090 61624	342R	342	209 204F	.....	1204F 1342R	204F 342R	.....	.....	204F 342R	1502F	204F	.....	204AF	204F 342R	204F 342R	.....
Willys Knight 70B.....(1930)	.....	H-65 J-70	61661	.....	227 342R	227F	227	1227	227	227	234	227	1512	227	.....	227	227	227	227
Willys Knight 66B.....(1930)	.....	K-122	.....	.....	209	.....	210	1210	210	209	.....	210	1503	210	.....	210	210	210	210
Willys Knight 87.....(1930)	.....	.....	.....	.....	.....	.....	.....	.....	227	.....	.....	.....	.....	.....	.....	210	.....	.....	.....
Willys Six 98B.....(1930)	.....	D-98	.....	.....	209	.....	209	.....	209	.....	.....	209	1501	209	.....	209	209	.....	.....
Willys 8-80.....(1930)	.....	.....	.....	.....	.....	.....	.....	.....	227	.....	.....	.....	.....	.....	.....	227	.....	.....	.....
Windsor 6-72, 6-77.....(1930)	.....	.....	.....	115	115	115	115	1115	115	.....	226	115	1527	115	.....	115	115	115	115
Windsor, 6-69.....(1930)	.....	.....	.....	.....	.....	115	.....	1115	115	.....	226	.....	1527	.....	.....	115	115	115	115
Windsor 6-75.....(1930)	.....	.....	.....	.....	.....	.....	.....	1115	115	.....	226	.....	1527	.....	.....	115	115	115	115
Windsor 8-85.....(1930)	.....	J-144	.....	.....	.....	.....	.....	.....	115	.....	226	.....	.....	.....	.....	115	.....	.....	.....
Windsor, 8-92.....(1930)	.....	H-111	.....	.....	.....	.....	.....	1115	115	.....	226	.....	1527	.....	.....	115	115	.....	115

Digitized by Google

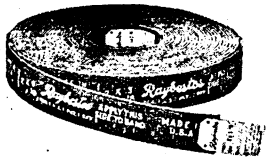
BRAKE LINING *for* EVERY TYPE *of* BRAKE



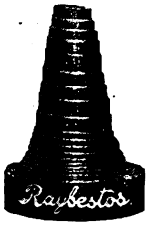
MOLDED SEGMENTS



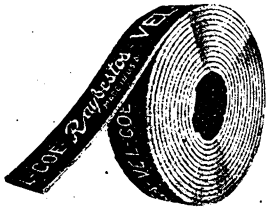
*MOLDED IN ROLLS
50 Ft. Continuous Lengths



*HYDRAULIC COMPRESSED



WOVEN
GOLD EDGE SILVER EDGE



VEL-COE IN ROLLS
(Woven With Plastic Metal Wires)

THE Raybestos line includes every type of lining for every type of car. All Raybestos products are made in accordance with Raybestos standards, which means the finest quality obtainable.

Vel-Coe, the latest Raybestos brake lining, combines velvet-like action with uniform coefficient of friction. It is a woven lining similar to Raybestos Silver Edge. Strands of soft, plastic metal wire are interwoven in staggered formation in addition to the asbestos yarn spun around brass wire. This pliable metal interlocks and binds the lining. It films the drum, preventing fusing of drum particles and consequent scoring. This means increased life for both lining and drum with smoother braking action.

Raybestos Brake Service Equipment

The serviceman may also obtain complete Raybestos brake service equipment—everything necessary for service work from huge brake tester to tiny rivet. Price: $1375. complete, including a stock of lining.

Other Raybestos Products

Clutch Facings, Fan Belts*, Car Washing Hose*, Welding Hose*, Hose for Filling Radiators*, Air Hose*, Windshield Wiper Hose*, Generator Tubing*, Hand Pump Tubing*, Car Mats*.

**Manufactured by the Manhattan Division*

The Raybestos Division
RAYBESTOS-MANHATTAN, INC.
Bridgeport, Conn.

Raybestos

Digitized by Google

RIVETS—Brass Tubular Type

Here are listed, by CHILTON NUMBER, the thirty brake-lining rivets found, in the preparation of the Chilton Brake Book, to be most important. Corresponding numbers used by ten rivet manufacturers are shown under each CHILTON NUMBER. Illustrations and dimensions on page opposite.

No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Chicago 304	Chicago 404	Chicago 906	Chicago 806	Chicago 808	Chicago 908
J.M. .....C-4/16"	J.M. .....A-4/16"	J.M. .....D-9/16"	J.M.	J.M.	J.M. .....D-8/16"
Man. B.H. ....38-4/16"	Man. B.H. ....12-4/16"	Man. B.H. ....48-9/16"	Man. B.H. ....22-9/16"	Man. B.H. ....22-8/16"	Man. B.H. ....48-8/16"
Multi. 1	Multi. 2	Multi. 3	Multi. 4	Multi. 5	Multi. 6
Penn 4B	Penn 4A	Penn 6D	Penn 6C	Penn 8C	Penn 8D
Raybestos 1	Raybestos 2	Raybestos 3	Raybestos 4	Raybestos 5	Raybestos 6
Rusco .....30-4/16"	Rusco .....40-4/16"	Rusco .....90-9/16"	Rusco	Rusco	Rusco .....90-8/16"
Shelton 1	Shelton 2	Shelton 3	Shelton 4	Shelton 5	Shelton 6
Thermoid 1	Thermoid 2	Thermoid 3	Thermoid 4	Thermoid 5	Thermoid 6
Tubular 1	Tubular 2	Tubular 3	Tubular 4	Tubular 5	Tubular 6

No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
Chicago 405	Chicago 305	Chicago 306	Chicago 406	Chicago 9010	Chicago 8010
J.M. .....A-5/16"	J.M. .....C-5/16"	J.M. .....C-5/16"	J.M. .....A-5/16"	J.M. .....D-10/16"	J.M. .....
Man. B.H. ....12-5/16"	Man. B.H. ....38-5/16"	Man. B.H. ....38-5/16"	Man. B.H. ....12-5/16"	Man. B.H. ....48-10/16"	Man. B.H. ...22-10/16"
Penn 5A	Multi. 8	Multi. 9	Multi. 10	Multi. 11	Multi. 12
Raybestos 7	Penn 5B	Penn 9B	Penn 6A	Penn 10D	Penn 10C
Rusco .....40-5/16"	Raybestos 8	Raybestos 9	Raybestos 10	Raybestos 11	Raybestos 12
Shelton 7	Rusco .....30-5/16"	Rusco .....30-5/16"	Rusco .....40-5/16"	Rusco .....90-10/16"	Rusco .....
Thermoid 7	Shelton 8	Shelton 9	Shelton 10	Shelton 11	Shelton 12
Tubular 7	Thermoid 8	Thermoid 9	Thermoid 10	Thermoid 11	Thermoid 12
	Tubular 8	Tubular 9	Tubular 10	Tubular 11	Tubular 12

No. 13	No. 14	No. 15	No. 16	No. 17	No. 18
Chicago 4010	Chicago 4012	Chicago 408	Chicago 308	Chicago 9012	Chicago 8012
J.M. .....A-10/16"	J.M. .....A-12/16"	J.M. .....A-8/16"	J.M. .....C-8/16"	J.M. .....D-12/16"	J.M. .....
Man. B.H. ...12-10/16"	Man. B.H. ...12-12/16"	Man. B.H. ....12-8/16"	Man. B.H. ....38-8/16"	Man. B.H. ...48-12/16"	Man. B.H. ...22-12/16"
Multi. 13	Multi. 14	Multi. 15	Multi. 16	Multi. 17	Multi. 18
Penn 10A	Penn 12A	Penn 8A	Penn 8B	Penn 12D	Penn 12C
Raybestos 13	Raybestos 14	Raybestos 15	Raybestos 16	Raybestos 17	Raybestos 18
Rusco .....40-10/16"	Rusco .....40-12/16"	Rusco .....40-8/16"	Rusco .....30-8/16"	Rusco .....90-12/16"	Rusco .....
Shelton 13	Shelton 14	Shelton 15	Shelton 16	Shelton 17	Shelton 18
Thermoid 13	Thermoid 14	Thermoid 15	Thermoid 16	Tubular 17	Thermoid 18
Tubular 13	Tubular 14	Tubular 15	Tubular 16	Thermoid 17	Tubular 18

No. 19	No. 20	No. 21	No. 22	No. 23	No. 24
Chicago 9014	Chicago 8014	Chicago 9016	Chicago 8016	Chicago 3010	Chicago 106
J.M. .....D-14/16"	J.M.	J.M. .....D-16/16"	J.M.	J.M. .....C-10/16"	J.M. .....
Man. B.H. ...48-14/16"	Man. B.H. ...22-14/16"	Man. B.H. ...48-16/16"	Man. B.H. ...22-16/16"	Man. B.H. ...38-10/16"	Man. B.H. .....2-9/16"
Multi. 19	Multi. 20	Multi. 21	Multi. 22	Multi. 23	Multi. 24
Penn 14D	Penn 14C	Penn 16D	Penn 16C	Penn 10B	Penn .....2800-9/16"
Raybestos 19	Raybestos 20	Raybestos 21	Raybestos 22	Raybestos 23	Raybestos 24
Rusco .....90-14/16"	Rusco	Rusco .....90-6/16"	Rusco	Rusco .....30-10/16"	Rusco .....10-9/16"
Shelton 19	Shelton 20	Shelton 21	Shelton 22	Shelton 23	Shelton 24
Thermoid 19	Thermoid 20	Thermoid 21	Thermoid 22	Thermoid 23	Thermoid 24
Tubular 19	Tubular 20	Tubular 21	Tubular 22	Tubular 23	Tubular 24

No. 25	No. 26	No. 27	No. 28	No. 200	No. 201
Chicago 186	Chicago 545	Chicago 105	Chicago 107	Chicago 9645	Chicago 9648
J. M.	J.M.	J.M.	J.M.	J.M.	J.M. .....
Man. B.H. ....32-6/16"	Man. B.H. .33-4½/16"	Man. B.H. .....2-5/16"	Man. B.H. .....2-7/16"	Man. B.H. .....9-5/16"	Man. B.H. .....9-5/16"
Multi. 25	Multi. 26	Multi. 27	Multi.	Multi. .....2970-5/16"	Multi. .....2970-5/16"
Penn 6G	Penn 9F	Penn .....2800-5/16"	Penn .....2800-7/16"	Penn .....5200-5/16"	Penn .....5200-5/16"
Raybestos 25	Raybestos 26	Raybestos 27	Raybestos 28	Raybestos	Raybestos .....
Rusco .....18-6/16"	Rusco .....5-4½/16"	Rusco .....10-5/16"	Rusco 28	Rusco .....9645-5/16"	Rusco .....964-5/16"
Shelton 25	Shelton 26	Shelton 27	Shelton 28	Shelton 200	Shelton 201
Thermoid 25	Thermoid 26	Thermoid 27	Thermoid 28	Thermoid 200	Thermoid 201
Tubular 25	Tubular 26	Tubular 27	Tubular 28	Tubular ....2970-5/16"	Tubular ....2970-5/16"

KEY TO ABBREVIATIONS

Chicago—Chicago Rivet & Machine Company
J.M.—Johns-Manville Corporation
Man. B. H.—Manufacturers Belt Hook Company
Multi.—Multibestos Co.
Penn—Penn Rivet Corp.
Raybestos—Raybestos Company
Rusco—Russel Manufacturing Company
Shelton—Shelton Tubular Rivet Company
Thermoid—Thermoid Rubber Company
Tubular—Tubular Rivet & Stud Company

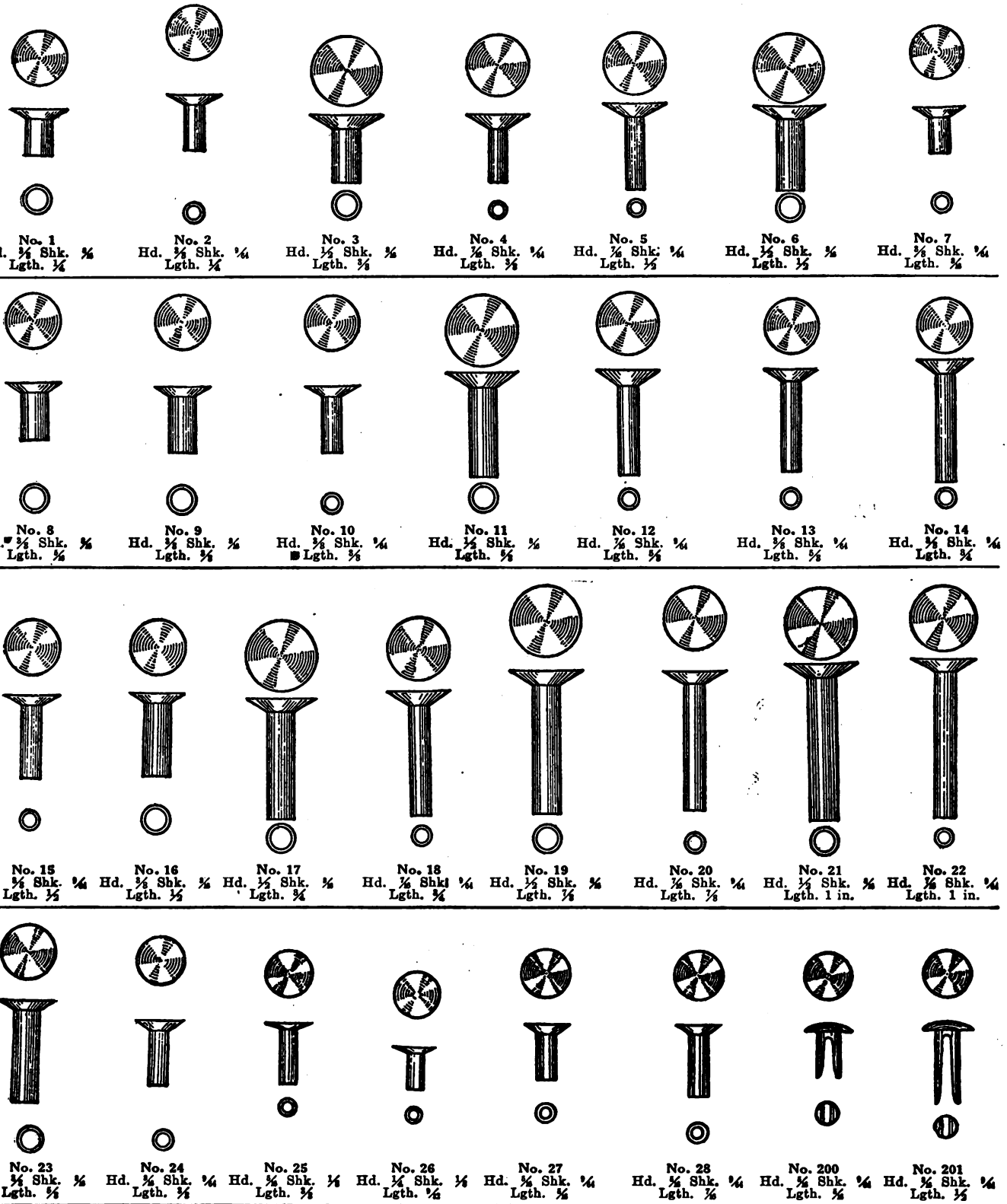
Digitized by Google

INTERCHANGEABILITY DATA

RIVETS—Brass Tubular Type

ILLUSTRATIONS—SIZES—CHILTON NUMBERS

For Corresponding Manufacturers' Numbers of Various Makes, See Page Opposite



No. 1 Hd. 3/16 Shk. 5/16 Lgth. 1/4
No. 2 Hd. 3/16 Shk. 1/4 Lgth. 1/4
No. 3 Hd. 1/8 Shk. 5/16 Lgth. 3/8
No. 4 Hd. 1/8 Shk. 1/4 Lgth. 3/8
No. 5 Hd. 1/8 Shk. 1/4 Lgth. 1/2
No. 6 Hd. 1/4 Shk. 5/16 Lgth. 1/2
No. 7 Hd. 3/16 Shk. 1/4 Lgth. 5/16
No. 8 Hd. 3/16 Shk. 5/16 Lgth. 5/16
No. 9 Hd. 3/16 Shk. 5/16 Lgth. 3/8
No. 10 Hd. 3/16 Shk. 1/4 Lgth. 3/8
No. 11 Hd. 1/4 Shk. 5/16 Lgth. 5/8
No. 12 Hd. 7/16 Shk. 1/4 Lgth. 5/8
No. 13 Hd. 3/16 Shk. 1/4 Lgth. 5/8
No. 14 Hd. 3/16 Shk. 1/4 Lgth. 3/4
No. 15 Hd. 1/4 Shk. 1/4 Lgth. 1/2
No. 16 Hd. 3/16 Shk. 5/16 Lgth. 1/2
No. 17 Hd. 1/4 Shk. 5/16 Lgth. 3/4
No. 18 Hd. 7/16 Shk. 1/4 Lgth. 3/4
No. 19 Hd. 1/4 Shk. 5/16 Lgth. 7/8
No. 20 Hd. 7/16 Shk. 1/4 Lgth. 7/8
No. 21 Hd. 1/4 Shk. 5/16 Lgth. 1 in.
No. 22 Hd. 7/16 Shk. 1/4 Lgth. 1 in.
No. 23 Hd. 1/4 Shk. 5/16 Lgth. 5/8
No. 24 Hd. 7/16 Shk. 1/4 Lgth. 3/8
No. 25 Hd. 5/16 Shk. 1/8 Lgth. 3/8
No. 26 Hd. 1/4 Shk. 1/8 Lgth. 1/2
No. 27 Hd. 5/16 Shk. 1/4 Lgth. 5/8
No. 28 Hd. 5/16 Shk. 1/4 Lgth. 7/8
No. 200 Hd. 5/16 Shk. 1/4 Lgth. 5/8
No. 201 Hd. 5/16 Shk. 1/4 Lgth. 1/2

Digitized by Google

UNIVERSAL JOINTS

and

Gasoline-Tank Filler Caps

Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the part is needed.
2. Follow this line across to column pertaining to that part.
3. In this Part Column opposite your car model you will find the CHILTON NUMBER for the part you want. The figure in parentheses tells you how many times you can find this CHILTON NUMBER in this column.
4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from another local dealer.

EXAMPLE: Suppose a Front Universal Joint Assembly is needed for a Gardner 95 (1928). Locate this car in the first column. Follow across to the column on Front Universal Joint Assembly, which is the second column. Here you see the CHILTON NUMBER for this part is Q-49F. The figure six (6) in parentheses means that this CHILTON NUMBER occurs six times in this column, indicating that five or more other car models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number Q-49F opposite the Gardner 130 (1929), Jordan JE (1928), Jordan JJ (1928), Peerless 91 (1928) and Peerless 91 (1929). The Front Universal Joint Assembly used in all these cars is interchangeable with the one in your Gardner 95 (1928) car.

Car Make and Model	Front Universal Joint Assembly (Metal)	Rear Universal Joint Assembly (Metal)	Front Flange or Hub Yoke	Rear Flange or Hub Yoke	Sleeve Yoke on Propeller Shaft	Journal (cross) or Pins	Bushings or Balls	Inside Casing or Joint Body	Outside Casing	Fabric Discs	GASOLINE TANK FILLER CAPS
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column											
Ajax.....(1925-26)	None	None	None	None	None	None	None	None	None	QH-1 (4)	JA-1 (220)
Anderson 41.....(1925)	None	None	None	None	None	None	None	None	None	QH-2 (7)	JA-2 (16)
Anderson 50.....(1925)	None	None	None	None	None	None	None	None	None	QH-2 (7)	JA-2 (16)
Apperson 6.....(1925)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Apperson Str. 8.....(1925)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Apperson 6.....(1926)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Apperson Str. AS.....(1926)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Auburn 4.....(1925)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 6-43.....(1925)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 8-88.....(1925)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 4-44.....(1926)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 6-66.....(1926)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 8-88.....(1926)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 6-66A.....(1927)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 8-88.....(1927)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 8-77.....(1927-28)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 76.....(1928-29)	Q-7-F (2)	Q-7-F (2)	QA-5-F (2)	QA-5-F (2)	None	QC-3 (2)	QD-3 (2)	QF-3 (2)	None	None	JA-1 (220)
Auburn 88.....(1928-29)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 115.....(1928-29)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-1 (220)
Auburn 6-80.....(1929)	Q-7-F (2)	Q-7-F (2)	QA-5-F (2)	QA-5-F (2)	None	QC-3 (2)	QD-3 (2)	QF-3 (2)	None	None	JA-3 (8)
Auburn 8-90.....(1929)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-3 (8)
Auburn 120.....(1929)	Q-2-F (33)	Q-2-F (33)	QA-4-F (33)	QA-4-F (33)	None	QC-2 (33)	QD-2 (33)	QF-2 (33)	None	None	JA-3 (8)

Digitized by Google

INTERCHANGEABILITY DATA

| | | |

UNIVERSAL JOINTS—Continued

Car Make and Model	Front Universal Joint Assembly (Metal)	Rear Universal Joint Assembly (Metal)	Front Flange or Hub Yoke	Rear Flange or Hub Yoke	Sleeve Yoke on Propeller Shaft	Journal (cross) or Pins	Bushings or Balls	Inside Casing or Joint Body	Outside Casing	Fabric Discs	GASOLINE TANK FILLER CAPS
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column											
Dodge Brothers Std. 6....(1929)	Q-85-F (1)	Q-13-R (4)	QA-10-F (1)	QA-12-R (4)	QB-75 (1)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-1 (220)
Dorris....(1925)	Q-15-F (1)	Q-10-R (1)	QA-36-F (1)	QA-36-F (1)	QB-19 (1)	QC-17 (1)	QD-17 (1)	QF-21 (1)	QG-9 (1)	None	JA-11 (25)
Duesenberg Str. 8....(1925)	None	None	None	None	None	None	None	None	None	QH-20 (3)	JA-15 (3)
Duesenberg Str. 8....(1926)	None	None	None	None	None	None	None	None	None	QH-20 (3)	JA-15 (3)
Duesenberg Str. 8....(1929)	None	None	None	None	None	None	None	None	None	QH-20 (3)	JA-15 (3)
DuPont D....(1925)	Q-27-F (2)	Q-2-R (2)	QA-38-F (2)	QA-38-F (2)	QB-20 (2)	QC-18 (2)	QD-18 (2)	QF-22 (2)	None	None	JA-11 (25)
DuPont D....(1926)	Q-27-F (2)	Q-2-R (2)	QA-38-F (2)	QA-38-F (2)	QB-20 (2)	QC-18 (2)	QD-18 (2)	QF-22 (2)	None	None	JA-11 (25)
DuPont E....(1927)	Q-16-F (1)	Q-3-R (1)	QA-37-F (1)	QA-37-F (1)	QB-21 (1)	QC-19 (1)	QD-19 (1)	QF-23 (1)	None	None	JA-11 (25)
DuPont E, F,....(1928)	Q-28-F (3)	Q-4-R (3)	QA-39-F (3)	QA-39-F (3)	QB-22 (3)	QC-20 (3)	QD-20 (3)	QF-24 (3)	QG-11 (3)	None	JA-11 (25)
DuPont E....(1929)	Q-28-F (3)	Q-4-R (3)	QA-39-F (3)	QA-39-F (3)	QB-22 (3)	QC-20 (3)	QD-20 (3)	QF-24 (3)	QG-11 (3)	None	JA-11 (25)
DuPont G....(1929)	Q-28-F (3)	Q-4-R (3)	QA-39-F (3)	QA-39-F (3)	QB-22 (3)	QC-20 (3)	QD-20 (3)	QF-24 (3)	QG-11 (3)	None	JA-11 (25)
Durant A22....(1925)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Durant 55....(1928)	Q-29-F (9)	Q-18-R (18)	QA-41-F (10)	QA-41-F (10)	QB-24 (9)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Durant 65....(1928)	Q-30-F (2)	Q-18-R (18)	QA-41-F (10)	QA-41-F (10)	QB-12 (2)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Durant M2....(1928-29)	Q-29-F (9)	Q-18-R (18)	QA-41-F (10)	QA-41-F (10)	QB-24 (9)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-8 (10)
Durant 75....(1928-29)	Q-31-F (2)	Q-19-R (2)	QA-42-F (2)	QA-42-F (2)	QB-25 (2)	QC-22 (2)	QD-22 (2)	QF-26 (2)	QG-13 (3)	None	JA-1 (220)
Durant 40....(1929)	Q-29-F (9)	Q-18-R (18)	QA-41-F (10)	QA-41-F (10)	QB-24 (9)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-8 (10)
Durant 60....(1929)	Q-29-F (9)	Q-18-R (18)	QA-41-F (10)	QA-41-F (10)	QB-24 (9)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Durant 66....(1929)	Q-30-F (2)	Q-20-R (1)	QA-43-F (1)	QA-43-F (1)	QB-12 (2)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-13 (3)	None	JA-1 (220)
Durant 70....(1929-30)	Q-31-F (2)	Q-19-R (2)	QA-42-F (2)	QA-42-F (2)	QB-25 (2)	QC-22 (2)	QD-22 (2)	QF-26 (2)	QG-13 (3)	None	JA-1 (220)
Elcar 4-40....(1925)	Q-33-F (5)	Q-21-R (5)	QA-44-F (5)	QA-16-R (5)	QB-18 (5)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Elcar 6-50....(1925)	Q-33-F (5)	Q-21-R (5)	QA-44-F (5)	QA-16-R (5)	QB-18 (5)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Elcar 6-60....(1925)	Q-33-F (5)	Q-21-R (5)	QA-44-F (5)	QA-16-R (5)	QB-18 (5)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Elcar 8-80....(1925)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-17-R (7)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-2 (16)
Elcar 6-65....(1926)	Q-36-F (3)	Q-6-R (13)	QA-11-F (3)	QA-14-R (13)	QB-28 (3)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-2 (16)
Elcar 8-81....(1926)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-17-R (7)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-2 (16)
Elcar 4-55....(1926-27)	Q-33-F (5)	Q-21-R (5)	QA-44-F (5)	QA-16-R (5)	QB-18 (5)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-2 (16)
Elcar 6-70....(1927)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Elcar 8-82....(1927)	Q-35-F (2)	Q-23-R (2)	QA-46-F (2)	QA-18-R (2)	QB-29 (2)	QC-25 (2)	QD-25 (2)	None	None	None	JA-1 (220)
Elcar 8-90....(1927)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-17-R (7)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Elcar 8-91....(1928)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-17-R (7)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Elcar 120....(1928)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-17-R (7)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Elcar 6-70....(1928-29)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Elcar 8-78....(1928-29)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Elcar 8-82....(1928-29)	Q-35-F (2)	Q-23-R (2)	QA-46-F (2)	QA-18-R (2)	QB-29 (2)	QC-25 (2)	QD-25 (2)	None	None	None	JA-1 (220)
Elcar 75....(1929)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-R (3)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Elcar 95, 96....(1929)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-17-R (7)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Elcar 120....(1929)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-17-R (7)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Erskine 50....(1927)	Q-41-F (3)	Q-30-R (3)	QA-51-F (3)	QA-20-R (3)	QB-35 (3)	QC-26 (3)	QD-26 (3)	QF-30 (3)	None	None	JA-1 (220)
Erskine 6-51....(1928)	Q-42-F (11)	Q-31-R (3)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Erskine 6-52....(1929)	Q-42-F (11)	Q-31-R (3)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Erskine 53....(1930)	Q-42-F (11)	Q-31-R (3)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-28 (1)
Essex 6....(1925)	Q-42-F (11)	Q-18-R (18)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-11 (25)
Essex 6....(1926)	Q-42-F (11)	Q-18-R (18)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-11 (25)
Essex Super 6....(1927)	Q-42-F (11)	Q-18-R (18)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-11 (25)
Essex Super 6....(1928)	Q-42-F (11)	Q-18-R (18)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Essex Challenger....(1929)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-R (3)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Falcon-Knight 10....(1927-28)	Q-86-F (26)	Q-75-R (9)	QA-18-F (26)	QA-21-R (9)	QB-5 (26)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Falcon-Knight 12....(1928-29)	Q-86-F (26)	Q-75-R (9)	QA-18-F (26)	QA-21-R (9)	QB-5 (26)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Flint B40....(1925-26)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Flint E55....(1925-26)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Flint B60....(1926)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Flint E80....(1926)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-9 (21)
Flint, Jr....(1926)	Q-43-F (7)	Q-35-R (7)	QA-54-F (7)	QA-54-F (7)	QB-38 (8)	QC-28 (8)	QD-28 (8)	QF-31 (8)	None	None	JA-9 (21)
Flint 60....(1927)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Flint 80....(1927)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-9 (21)
Flint, Jr....(1927)	Q-43-F (7)	Q-35-R (7)	QA-54-F (7)	QA-54-F (7)	QB-38 (8)	QC-28 (8)	QD-28 (8)	QF-31 (8)	None	None	JA-9 (21)
Ford T....(1925)	Q-44-F (3)	None	QA-55-F (3)	None	QB-39 (3)	None	None	QF-32 (3)	QG-18 (4)	None	JA-17 (3)
Ford T....(1926)	Q-44-F (3)	None	QA-55-F (3)	None	QB-39 (3)	None	None	QF-32 (3)	QG-18 (4)	None	JA-17 (3)
Ford T....(1927)	Q-44-F (3)	None	QA-55-F (3)	None	QB-39 (3)	None	None	QF-32 (3)	QG-18 (4)	None	JA-17 (3)
Ford A....(1928)	Q-45-F (2)	None	QA-56-F (2)	None	QB-40 (2)	None	None	QF-33 (2)	QG-19 (2)	None	JA-18 (2)
Ford A....(1929)	Q-45-F (2)	None	QA-56-F (2)	None	QB-40 (2)	None	None	QF-33 (2)	QG-19 (2)	None	JA-18 (2)
Franklin 11-A....(1925)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-16 (49)
Franklin 11....(1926)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-16 (49)
Franklin 11-B....(1927-28)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Franklin Ser. 12 A, B. ....(1927-28)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Franklin 130....(1929)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Franklin 135, 137....(1929)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)

Digitized by Google

INTERCHANGEABILITY DATA

| | | |

UNIVERSAL JOINTS—Continued

Car Make and Model	Front Universal Joint Assembly (Metal)	Rear Universal Joint Assembly (Metal)	Front Flange or Hub Yoke	Rear Flange or Hub Yoke	Sleeve Yoke on Propeller Shaft	Journal (cross) or Pins	Bushings or Balls	Inside Casing or Joint Body	Outside Casing	Fabric Discs	GASOLINE TANK FILLER CAPS
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column											
Locomobile 48.....(1925)	Q-57-F (5)	Q-14-R (5)	QA-71-F (3)	QA-71-F (3)	QB-38 (8)	QC-28 (8)	QD-28 (8)	QF-31 (8)	None	None	JA-10 (14)
Locomobile 48.....(1926)	Q-57-F (5)	Q-14-R (5)	QA-71-F (3)	QA-71-F (3)	QB-38 (8)	QC-28 (8)	QD-28 (8)	QF-31 (8)	None	None	JA-1 (220)
Locomobile 90.....(1926)	Q-58-F (4)	Q-48-R (4)	QA-72-F (4)	QA-72-F (4)	QB-32 (3)	QC-38 (3)	QD-38 (3)	QF-38 (3)	None	None	JA-1 (220)
Locomobile Jr. 8.....(1926)	Q-43-F (7)	Q-35-R (7)	QA-54-F (7)	QA-54-F (7)	QB-38 (8)	QC-28 (8)	QD-28 (8)	QF-31 (8)	None	None	JA-1 (220)
Locomobile 48.....(1927)	Q-57-F (5)	Q-14-R (5)	QA-71-F (3)	QA-71-F (3)	QB-32 (3)	QC-38 (3)	QD-38 (3)	QF-38 (3)	None	None	JA-1 (220)
Locomobile 8-66.....(1927)	Q-43-F (7)	Q-35-R (7)	QA-54-F (7)	QA-54-F (7)	QB-32 (3)	QC-38 (3)	QD-38 (3)	QF-38 (3)	None	None	JA-1 (220)
Locomobile 8-80.....(1927)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 90.....(1927)	Q-58-F (4)	Q-48-R (4)	QA-72-F (4)	QA-72-F (4)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 48.....(1928)	Q-57-F (5)	Q-14-R (5)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 8-70.....(1928)	Q-42-F (11)	Q-18-R (18)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-1 (220)
Locomobile 8-80.....(1928)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 90.....(1928)	Q-58-F (4)	Q-48-R (4)	QA-72-F (4)	QA-72-F (4)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 48.....(1929)	Q-57-F (5)	Q-14-R (5)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 8-80.....(1929)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 86-88.....(1929)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Locomobile 90.....(1929)	Q-58-F (4)	Q-48-R (4)	QA-72-F (4)	QA-72-F (4)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Marmon 74.....(1925)	Q-61-F (4)	None	QA-75-F (4)	None	QB-48 (4)	QC-39 (4)	QD-39 (4)	QF-39 (4)	QG-22 (4)	None	JA-1 (220)
Marmon 74.....(1926)	Q-61-F (4)	None	QA-75-F (4)	None	QB-48 (4)	QC-39 (4)	QD-39 (4)	QF-39 (4)	QG-22 (4)	None	JA-1 (220)
Marmon Little 8.....(1927)	Q-86-F (25)	Q-6-R (13)	QA-18-F (25)	QA-14-R (13)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-1 (220)
Marmon E75.....(1927)	Q-61-F (4)	None	QA-75-F (4)	None	QB-48 (4)	QC-39 (4)	QD-39 (4)	QF-39 (4)	QG-22 (4)	None	JA-14 (16)
Marmon 68.....(1928)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Marmon E75.....(1928)	Q-61-F (4)	None	QA-75-F (4)	None	QB-48 (4)	QC-39 (4)	QD-39 (4)	QF-39 (4)	QG-22 (4)	None	JA-14 (16)
Marmon 78.....(1928)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Marmon 68.....(1929)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Marmon Roosevelt.....(1929)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Marmon 78.....(1929)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Maxwell.....(1925)	None	None	None	None	None	None	None	None	None	QH-7 (2)	JA-8 (10)
Moon Series A.....(1925)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-13 (13)
Moon Series A.....(1926)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-13 (13)
Moon Series A.....(1927)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-13 (13)
Moon 6-60.....(1927)	Q-42-F (11)	Q-18-R (18)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-13 (13)
Moon Series A.....(1928)	Q-32-F (13)	Q-17-R (13)	QA-40-F (13)	QA-40-F (13)	QB-23 (13)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-13 (13)
Moon 6-60.....(1928)	Q-42-F (11)	Q-18-R (18)	QA-52-F (11)	QA-52-F (11)	QB-36 (11)	QC-21 (35)	QD-21 (35)	QF-25 (35)	QG-12 (34)	None	JA-13 (13)
Moon 6-72.....(1928)	Q-86-F (25)	Q-43-R (4)	QA-18-F (25)	QA-24-F (3)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-13 (13)
Moon 8-80.....(1928-29)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-13 (13)
Moon 6-72.....(1929)	Q-86-F (25)	Q-43-R (4)	QA-18-F (25)	QA-25-R (3)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-9 (21)
Nash Adv. 6.....(1925)	Q-62-F (10)	Q-52-R (4)	QA-77-F (10)	QA-77-F (4)	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	None	JA-1 (220)
Nash Spec. 6.....(1925)	Q-62-F (10)	Q-52-R (4)	QA-77-F (10)	QA-77-F (4)	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	None	JA-1 (220)
Nash Adv. 6.....(1926)	Q-62-F (10)	Q-52-R (4)	QA-77-F (10)	QA-77-F (4)	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	None	JA-1 (220)
Nash Spec.....(1926)	Q-62-F (10)	Q-52-R (4)	QA-77-F (10)	QA-77-F (4)	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	None	JA-1 (220)
Nash Adv.....(1927)	Q-62-F (10)	None	QA-77-F (10)	None	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	None	JA-1 (220)
Nash Spec.....(1927)	Q-62-F (10)	None	QA-77-F (10)	None	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	None	JA-1 (220)
Nash Light 6.....(1927)	None	None	None	None	None	None	None	None	None	QH-1 (4)	JA-1 (220)
Nash Adv. 6.....(1928)	Q-62-F (10)	None	QA-77-F (10)	None	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	QH-11 (7)	JA-1 (220)
Nash Spec. 6.....(1928)	Q-62-F (10)	None	QA-77-F (10)	None	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	QH-11 (7)	JA-1 (220)
Nash Std. 6.....(1928)	None	None	None	None	None	None	None	None	None	QH-1 (4)	JA-1 (220)
Nash Adv. 6.....(1929)	Q-62-F (10)	None	QA-77-F (10)	None	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	QH-11 (7)	JA-1 (220)
Nash Spec. 6.....(1929-30)	Q-62-F (10)	None	QA-77-F (10)	None	QB-49 (10)	QC-40 (10)	QD-40 (10)	QF-40 (10)	QG-23 (10)	QH-11 (7)	JA-1 (220)
Nash Std. 6.....(1929-30)	None	None	None	None	None	None	None	None	None	QH-1 (4)	JA-1 (220)
Oakland 6-54.....(1925)	Q-63-F (2)	Q-21-R (5)	QA-76-F (2)	QA-16-R (5)	QB-50 (2)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-9 (21)
Oakland O6.....(1926)	Q-63-F (2)	Q-6-R (13)	QA-76-F (2)	QA-14-R (13)	QB-50 (2)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-9 (21)
Oakland GO-6.....(1927)	Q-64-F (2)	Q-6-R (13)	QA-74-F (2)	QA-14-R (13)	QB-51 (2)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-9 (21)
Oakland AA-6.....(1928)	Q-64-F (2)	Q-6-R (13)	QA-74-F (2)	QA-14-R (13)	QB-51 (2)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-1 (220)
Oakland AA-6.....(1929)	Q-60-F (1)	Q-53-R (2)	QA-79-F (1)	QA-30-R (2)	QB-52 (1)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-1 (220)
Oldsmobile C30.....(1925)	None	None	None	None	None	None	None	None	None	QH-8 (9)	JA-9 (21)
Oldsmobile D30.....(1926)	None	None	None	None	None	None	None	None	None	QH-8 (9)	JA-1 (220)
Oldsmobile E.....(1927)	None	None	None	None	None	None	None	None	None	QH-8 (9)	JA-1 (220)
Oldsmobile F28.....(1928)	None	Q-54-R (2)	None	QA-31-R (2)	None	QC-41 (2)	QD-41 (2)	QF-41 (2)	None	QH-8 (9)	JA-1 (220)
Oldsmobile F29.....(1929)	None	Q-54-R (2)	None	QA-31-R (2)	None	QC-41 (2)	QD-41 (2)	QF-41 (2)	None	QH-8 (9)	JA-1 (220)
Overland 91.....(1925)	Q-59-F (2)	None	QA-78-F (2)	None	QB-53 (2)	QC-42 (2)	QD-42 (2)	QF-42 (2)	None	None	JA-20 (4)
Overland 93.....(1925)	Q-86-F (25)	Q-75-R (9)	QA-18-F (25)	QA-21-R (9)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-20 (4)
Overland 91.....(1926)	Q-59-F (2)	None	QA-78-F (2)	None	QB-53 (2)	QC-42 (2)	QD-42 (2)	QF-42 (2)	None	None	JA-20 (4)
Overland 93.....(1926)	Q-86-F (25)	Q-75-R (9)	QA-18-F (25)	QA-21-R (9)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-20 (4)
Packard 6 Cyl. 326-333....(1925)	Q-66-F (16)	Q-56-R (16)	QA-80-F (16)	QA-34-R (16)	QB-55 (16)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-10 (14)
Packard 8 Cyl. 246-243....(1925)	Q-66-F (16)	Q-56-R (16)	QA-80-F (16)	QA-34-R (16)	QB-55 (16)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-10 (14)
Packard 6 Cyl. 326-333....(1926)	Q-66-F (16)	Q-56-R (16)	QA-80-F (16)	QA-34-R (16)	QB-55 (16)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-10 (14)
Packard 8 Cyl. 236-243....(1926)	Q-66-F (16)	Q-56-R (16)	QA-80-F (16)	QA-34-R (16)	QB-55 (16)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-10 (14)
Packard 6 Cyl. 426-433....(1927)	Q-66-F (16)	Q-56-R (16)	QA-80-F (16)	QA-34-R (16)	QB-55 (16)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-10 (14)
Packard 8 Cyl. 336-343....(1927)	Q-66-F (16)	Q-56-R (16)	QA-80-F (16)	QA-34-R (16)	QB-55 (16)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-10 (14)

Digitized by Google

INTERCHANGEABILITY DATA

| | | |

UNIVERSAL JOINTS—Continued

Car Make and Model	Front Universal Joint Assembly (Metal)	Rear Universal Joint Assembly (Metal)	Front Flange or Hub Yoke	Rear Flange or Hub Yoke	Sleeve Yoke on Propeller Shaft	Journal (cross) or Pins	Bushings or Balls	Inside Casing or Joint Body	Outside Casing	Fabric Discs	GASOLINE TANK FILLER CAPS
Interchangeable Parts Have the Same CHILTON NUMBER in Any Column											
Stearns Knight B 4 Cyl...(1926)	None	None	None	None	None	None	None	None	None	QH-22 (4)	JA-16 (49)
Stearns Knight C75.....(1926)	Q-68-F (7)	Q-58-R (6)	QA-82-F (7)	QA-36-R (11)	QB-57 (7)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-16 (49)
Stearns Knight S95.....(1926)	Q-68-F (7)	Q-58-R (6)	QA-82-F (7)	QA-36-R (11)	QB-57 (7)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-16 (49)
Stearns Knight F 6-85.....(1927)	Q-68-F (7)	Q-58-R (6)	QA-82-F (7)	QA-36-R (11)	QB-57 (7)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-16 (49)
Stearns Knight G 885.....(1927)	Q-67-F (12)	Q-57-R (12)	QA-81-F (12)	QA-35-R (12)	QB-56 (12)	QC-45 (12)	QD-45 (12)	QF-45 (12)	None	None	JA-16 (49)
Stearns Knight F 6-85.....(1928)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-16 (49)
Stearns Knight H-J 8-90...(1928)	Q-67-F (12)	Q-57-R (12)	QA-81-F (12)	QA-35-R (12)	QB-56 (12)	QC-45 (12)	QD-45 (12)	QF-45 (12)	None	None	JA-16 (49)
Stearns Knight H-J 8-90...(1929)	Q-67-F (12)	Q-57-R (12)	QA-81-F (12)	QA-35-R (12)	QB-56 (12)	QC-45 (12)	QD-45 (12)	QF-45 (12)	None	None	JA-5 (11)
Stearns Knight M-N 6-80..(1929)	Q-1-F (22)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-5 (11)
Stevens Duryea G.....(1925)	Q-91-F (1)	Q-67-R (1)	QA-93-F (1)	QA-93-F (1)	QB-68 (1)	QC-53 (1)	QD-53 (1)	QF-55 (1)	QG-33 (1)	None	JA-27 (1)
Studebaker Big 6.....(1925)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-10 (14)
Studebaker Spec. 6.....(1925)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-10 (14)
Studebaker Std. 6.....(1925)	None	None	None	None	None	None	None	None	None	QH-13 (3)	JA-8 (10)
Studebaker Big 6.....(1926)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-10 (14)
Studebaker Std. 6.....(1926)	None	None	None	None	None	None	None	None	None	QH-13 (3)	JA-8 (10)
Studebaker Spec. 6.....(1926)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-10 (14)
Studebaker Big 6.....(1927)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-10 (14)
Studebaker Spec. 6.....(1927)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-10 (14)
Studebaker Std. 6.....(1927)	None	None	None	None	None	None	None	None	None	QH-13 (3)	JA-8 (10)
Studebaker Com.....(1928)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Studebaker Dict. 6.....(1928)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Studebaker Pres. 8.....(1928)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-1 (220)
Studebaker Com. 6.....(1929-30)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Studebaker Com. 8.....(1929-30)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Studebaker Dict. 6.....(1929-30)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Studebaker Dict. 8.....(1929-30)	Q-12-F (24)	Q-74-R (24)	QA-23-F (24)	QA-23-F (22)	QB-27 (18)	QC-8 (34)	QD-8 (34)	QF-10 (34)	QG-1 (34)	None	JA-1 (220)
Studebaker Pres. 8 125-WB(1929-30)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-45-F (38)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-18 (4)	None	JA-1 (220)
Stutz 695.....(1925)	Q-68-F (7)	Q-58-R (6)	QA-82-F (7)	QA-36-R (11)	QB-57 (7)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-14 (16)
Stutz AA.....(1926)	Q-68-F (7)	Q-58-R (6)	QA-82-F (7)	QA-36-R (11)	QB-57 (7)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-14 (16)
Stutz AA.....(1927)	Q-68-F (7)	Q-29-R (3)	QA-82-F (7)	QA-36-R (11)	QB-57 (7)	QC-44 (23)	QD-44 (23)	QF-44 (23)	None	None	JA-14 (16)
Stutz BB.....(1928)	Q-67-F (12)	Q-57-R (12)	QA-81-F (12)	QA-35-R (12)	QB-56 (12)	QC-45 (12)	QD-45 (12)	QF-45 (12)	None	None	JA-5 (11)
Stutz Series M.....(1929)	Q-67-F (12)	Q-57-R (12)	QA-81-F (12)	QA-35-R (12)	QB-56 (12)	QC-45 (12)	QD-45 (12)	QF-45 (12)	None	None	JA-5 (11)
Velie 60.....(1925)	Q-40-F (8)	Q-36-R (8)	QA-57-F (8)	QA-22-R (8)	QB-41 (8)	QC-31 (7)	QD-31 (7)	None	None	None	JA-11 (25)
Velie 60.....(1926)	Q-79-F (2)	Q-69-R (2)	QA-94-F (2)	QA-42-R (2)	QB-69 (2)	QC-55 (2)	QD-55 (2)	None	None	None	JA-11 (25)
Velie Spec. 60.....(1927-28)	Q-79-F (2)	Q-69-R (2)	QA-94-F (2)	QA-42-R (2)	QB-69 (2)	QC-55 (2)	QD-55 (2)	None	None	None	JA-1 (220)
Velie Std. 50.....(1927-28)	Q-80-F (1)	Q-70-R (1)	QA-95-F (1)	QA-43-R (1)	QB-70 (1)	QC-56 (1)	QD-56 (1)	None	None	None	JA-1 (220)
Velie 6-66.....(1928)	Q-81-F (3)	Q-71-R (3)	QA-96-F (3)	QA-44-R (3)	QB-71 (3)	QC-57 (3)	QD-57 (3)	None	None	None	JA-1 (220)
Velie 6-77.....(1928)	Q-81-F (3)	Q-71-R (3)	QA-96-F (3)	QA-44-R (3)	QB-71 (3)	QC-57 (3)	QD-57 (3)	None	None	None	JA-1 (220)
Velie 8-88.....(1928)	Q-81-F (3)	Q-71-R (3)	QA-96-F (3)	QA-44-R (3)	QB-71 (3)	QC-57 (3)	QD-57 (3)	None	None	None	JA-1 (220)
Viking.....(1929)	Q-1-F (21)	Q-72-R (2)	QA-3-F (22)	QA-45-R (2)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-1 (220)
Westcott 44.....(1925)	Q-82-F (2)	Q-73-R (2)	QA-99-F (2)	QA-46-R (2)	QB-72 (2)	QC-58 (2)	QD-58 (2)	None	None	None	JA-13 (15)
Westcott 60.....(1925)	Q-82-F (2)	Q-73-R (2)	QA-99-F (2)	QA-46-R (2)	QB-72 (2)	QC-58 (2)	QD-58 (2)	None	None	None	JA-13 (15)
Whippet 96 4 Cyl.....(1927)	Q-41-F (3)	Q-30-R (3)	QA-51-F (3)	QA-20-R (3)	QB-35 (3)	QC-26 (3)	QD-26 (3)	QF-30 (3)	None	None	JA-16 (49)
Whippet 93-A 6 Cyl.....(1927)	Q-86-F (25)	Q-75-R (9)	QA-18-F (25)	QA-21-R (9)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Whippet 96 4 Cyl.....(1928)	Q-41-F (3)	Q-30-R (3)	QA-51-F (3)	QA-20-R (3)	QB-35 (3)	QC-26 (3)	QD-26 (3)	QF-30 (3)	None	None	JA-16 (49)
Whippet 98 6 Cyl.....(1928)	Q-86-F (25)	Q-75-R (9)	QA-18-F (25)	QA-21-R (9)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Whippet 96-A.....(1929)	Q-65-F (1)	Q-55-R (1)	QA-69-F (1)	QA-32-R (1)	QB-54 (1)	QC-43 (1)	QD-43 (1)	QF-43 (1)	None	None	JA-1 (220)
Whippet 98-A.....(1929)	Q-86-F (25)	Q-75-R (9)	QA-18-F (25)	QA-21-R (9)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-1 (220)
Wills Ste. Claire 8.....(1925)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-36-R (11)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-25 (4)
Wills Ste. Claire 6.....(1925)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-36-R (11)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-25 (4)
Wills Ste. Claire 8.....(1926)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-36-R (11)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-25 (4)
Wills Ste. Claire 6.....(1926)	Q-34-F (48)	Q-22-R (49)	QA-45-F (50)	QA-36-R (11)	QB-26 (53)	QC-24 (53)	QD-24 (53)	QF-28 (53)	QG-15 (52)	None	JA-25 (4)
Willys Knight 66.....(1925)	None	None	None	None	None	None	None	None	None	QH-2 (7)	JA-16 (49)
Willys Knight 65.....(1925)	None	None	None	None	None	None	None	None	None	QH-2 (7)	JA-16 (49)
Willys Knight 66.....(1926)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-16 (49)
Willys Knight 70.....(1926)	Q-86-F (25)	Q-75-R (9)	QA-18-F (25)	QA-21-R (9)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Willys Knight 66-A.....(1927)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-16 (49)
Willys Knight 70-A.....(1927)	Q-86-F (25)	Q-6-R (13)	QA-18-F (25)	QA-14-R (13)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Willys Knight Great 6.....(1928)	Q-86-F (25)	Q-6-R (13)	QA-18-F (25)	QA-14-R (13)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-24 (1)
Willys Knight Std. 6.....(1928)	Q-86-F (25)	Q-6-R (13)	QA-18-F (25)	QA-14-R (13)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Willys Knight Spec. 6.....(1928)	Q-86-F (25)	Q-6-R (13)	QA-18-F (25)	QA-14-R (13)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-16 (49)
Willys Knight 66-A.....(1929)	Q-1-F (21)	Q-72-R (2)	QA-3-F (21)	QA-45-R (2)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-1 (220)
Willys Knight 70-B.....(1929)	Q-86-F (25)	Q-6-R (13)	QA-18-F (25)	QA-14-R (13)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-1 (220)
Windsor 6-69, 6-75.....(1930)	Q-86-F (25)	Q-6-R (13)	QA-18-F (25)	QA-14-R (13)	QB-5 (25)	QC-16 (39)	QD-16 (39)	QF-19 (36)	None	None	JA-31 (2)
Windsor 8-85, 8-92.....(1930)	Q-1-F (21)	Q-1-R (19)	QA-3-F (21)	QA-1-R (19)	QB-1 (21)	QC-1 (36)	QD-1 (36)	QF-1 (35)	None	None	JA-31 (2)

Abbreviations: F—Front. R—Rear.

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

CLUTCH and TRANSMISSION

Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the part is needed.
2. Follow this line across to column pertaining to that part.
3. In this part column opposite your car model you will find the CHILTON NUMBER for the part you want. (The figure in parentheses tells you how many times you can find this CHILTON NUMBER in this column.)
4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from another local dealer or a nearby parts jobber.

Example: Suppose a Clutch Facing is needed for an Auburn 6-43 (1925) car. Locate this car in the first column. Follow across to the column on Clutch Facing, which is the second column. Here you see the CHILTON NUMBER for this part is EG-4. The figure four (4) in parentheses means that this CHILTON NUMBER occurs four times in this column ,indicating that three or more other car models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number EG-4 opposite the Auburn 6-66 (1926), Hupmobile E-1 (1925-26) and Hupmobile Series R (1925) cars. The Clutch Facings used in all these cars are interchangeable with the one in your Auburn 6-43 (1925) car.

For Clutch and Transmission Bearing Data, See Pages 221 to 240

Car Make and Model		Clutch						Transmission					
		Clutch Facings (Lining)		Clutch Shaft		Clutch Discs		High and Intermediate Sliding Gear		Low and Reverse Sliding Gear		Countershaft Gear Cluster	
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column													
Ajax	(1925-26)	EG-1	(52)	EH-1	(4)	EI-26	(7)	PB-1	(4)	PC-1	(4)	PE-1	(4)
Anderson 41	(1925)	EG-2	(99)	EH-2	(2)	EI-1	(22)	PB-2	(2)	PC-2	(2)	PE-2	(2)
Anderson 50	(1925)	EG-2	(99)	EH-2	(2)	EI-1	(22)	PB-2	(2)	PC-2	(2)	PE-2	(2)
Apperson 6	(1925)	EG-2	(99)	EH-3	(4)	EI-56	(2)	PB-3	(4)	PC-3	(4)	PE-3	(4)
Apperson Str. 8	(1925)	EG-2	(99)	EH-3	(4)	EI-57	(2)	PB-3	(4)	PC-3	(4)	PE-3	(4)
Apperson 6	(1926)	EG-2	(99)	EH-3	(4)	EI-56	(2)	PB-3	(4)	PC-3	(4)	PE-3	(4)
Apperson Str. 8	(1926)	EG-2	(99)	EH-3	(4)	EI-57	(2)	PB-3	(4)	PC-3	(4)	PE-3	(4)
Auburn 4	(1925)	EG-1	(52)	EH-4	(2)	EI-2	(2)	PB-4	(76)	PC-4	(90)	PE-4	(76)
Auburn 6-43	(1925)	EG-4	(4)	EH-5	(10)	EI-1	(22)	PB-4	(76)	PC-4	(90)	PE-4	(76)
Auburn 8-88	(1925)	EG-5	(12)	EH-6	(20)	EI-58	(5)	PB-4	(76)	PC-4	(90)	PE-4	(76)
Auburn 4-44	(1926)	EG-1	(52)	EH-4	(2)	EI-2	(2)	PB-4	(76)	PC-4	(90)	PE-4	(76)
Auburn 6-66	(1926)	EG-4	(4)	EH-7	(15)	EI-59	(3)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Auburn 8-88	(1926)	EG-5	(12)	EH-6	(20)	EI-58	(5)	PB-4	(76)	PC-4	(90)	PE-4	(76)
Auburn 6-66-A	(1927)	EG-6	(32)	EH-7	(15)	EI-60	(1)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Auburn 8-88	(1927-28)	EG-7	(19)	EH-8	(9)	EI-58	(5)	PB-4	(76)	PC-4	(90)	PE-4	(76)
Auburn 8-77	(1927-28)	EG-7	(19)	EH-7	(15)	EI-59	(3)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Auburn 76	(1928-29)	EG-6	(32)	EH-7	(15)	EI-59	(3)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Auburn 88	(1928-29)	EG-7	(19)	EH-8	(9)	EI-58	(5)	PB-6	(7)	PC-4	(90)	PE-6	(7)
Auburn 115	(1928-29)	EG-8	(3)	EH-9	(17)	EI-58	(5)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Auburn 6-80	(1929)	EG-6	(32)	EH-7	(15)	EI-61	(1)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Auburn 8-90	(1929)	EG-7	(19)	EH-8	(9)	EI-62	(1)	PB-6	(7)	PC-4	(90)	PE-6	(7)
Auburn 120	(1929)	EG-6	(32)	EH-9	(17)	EI-63	(1)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Blackhawk L6	(1929)	EG-9	(33)	EH-11	(2)	EI-3	(3)	PB-10	(2)	PC-8	(2)	PE-10	(2)
Blackhawk L8	(1929)	EG-9	(33)	EH-11	(2)	EI-3	(3)	PB-10	(2)	PC-8	(2)	PE-10	(2)
Buick Master	(1925)	EG-10	(3)	EH-12	(2)	EI-36	(8)	PB-11	(1)	PC-9	(1)	PE-12	(2)
Buick Std.	(1925)	EG-10	(3)	EH-13	(1)	EI-37	(2)	PB-12	(2)	PC-10	(2)	PE-11	(2)
Buick Master	(1926)	EG-11	(7)	EH-12	(2)	EI-36	(8)	PB-13	(1)	PC-11	(1)	PE-12	(2)
Buick Std.	(1926)	EG-12	(4)	EH-14	(1)	EI-37	(2)	PB-12	(2)	PC-10	(2)	PE-11	(2)
Buick 115	(1927)	EG-12	(4)	EH-15	(3)	EI-36	(8)	PB-14	(3)	PC-12	(3)	PE-13	(3)
Buick 120, 128	(1927)	EG-11	(7)	EH-16	(3)	EI-36	(8)	PB-15	(3)	PC-13	(3)	PE-14	(3)
Buick 115	(1928)	EG-12	(4)	EH-15	(3)	EI-36	(8)	PB-14	(3)	PC-12	(3)	PE-13	(3)
Buick 120, 128	(1928)	EG-11	(7)	EH-16	(3)	EI-36	(8)	PB-15	(3)	PC-13	(3)	PE-14	(3)
Buick 116	(1929)	EG-12	(4)	EH-15	(3)	EI-36	(8)	PB-14	(3)	PC-12	(3)	PE-13	(3)
Buick 121, 129	(1929)	EG-11	(7)	EH-16	(3)	EI-36	(8)	PB-15	(3)	PC-13	(3)	PE-14	(3)
Cadillac V63	(1925)	EG-13	(4)	EH-17	(1)	EI-38	(3)	PB-16	(1)	PC-14	(1)	PE-15	(1)
Cadillac 314	(1926)	EG-13	(4)	EH-18	(4)	EI-39	(1)	PB-17	(2)	PC-15	(2)	PE-16	(2)
Cadillac 314	(1927)	EG-14	(4)	EH-18	(4)	EI-38	(3)	PB-17	(2)	PC-15	(2)	PE-16	(2)
Cadillac 341-A	(1928)	EG-14	(4)	EH-19	(3)	EI-40	(4)	PB-18	(5)	PC-16	(5)	PE-17	(5)
Cadillac 341-B	(1929)	EG-14	(4)	EH-19	(3)	EI-40	(4)	PB-18	(5)	PC-16	(5)	PE-17	(5)
Case JIC	(1925)	EG-15	(17)	EH-20	(2)	EI-64	(2)	PB-19	(2)	PC-17	(2)	PE-18	(2)
Case X	(1925)	EG-15	(17)	EH-21	(1)	EI-64	(2)	PB-20	(1)	PC-18	(1)	PE-19	(1)
Case Y	(1925)	EG-15	(17)	EH-22	(2)	EI-65	(3)	PB-21	(2)	PC-19	(2)	PE-20	(2)
Case JIC	(1926)	EG-15	(17)	EH-20	(2)	EI-65	(3)	PB-19	(2)	PC-17	(2)	PE-18	(2)
Case Y	(1926)	EG-15	(17)	EH-22	(2)	EI-65	(3)	PB-21	(2)	PC-19	(2)	PE-20	(2)
Chandler 33	(1925)	EG-2	(99)	EH-23	(6)	EI-66	(1)	PB-22	(6)	PC-20	(6)	PE-21	(6)
Chandler 35	(1926)	EG-2	(99)	EH-24	(5)	EI-4	(1)	PB-23	(5)	PC-21	(5)	PE-22	(5)
Chandler Big 6	(1927)	EG-2	(99)	EH-24	(5)	EI-67	(1)	PB-23	(5)	PC-21	(5)	PE-22	(5)
Chandler Royal 8	(1927)	EG-2	(99)	EH-24	(5)	EI-68	(1)	PB-23	(5)	PC-21	(5)	PE-22	(5)
Chandler Spec. 6	(1927)	EG-2	(99)	EH-23	(6)	EI-5	(6)	PB-22	(6)	PC-20	(6)	PE-21	(6)
Chandler Std. 6	(1927)	EG-1	(52)	EH-25	(3)	EI-6	(11)	PB-24	(3)	PC-22	(3)	PE-23	(3)
Chandler Big 6	(1928)	EG-2	(99)	EH-24	(5)	EI-5	(6)	PB-23	(5)	PC-21	(5)	PE-22	(5)
Chandler Royal 8	(1928)	EG-2	(99)	EH-24	(5)	EI-5	(6)	PB-23	(5)	PC-21	(5)	PE-22	(5)
Chandler Spec. 6	(1928)	EG-1	(52)	EH-23	(6)	EI-5	(6)	PB-22	(6)	PC-20	(6)	PE-21	(6)
Chandler Spec. INV. 6	(1928)	EG-1	(52)	EH-23	(6)	EI-5	(6)	PB-22	(6)	PC-20	(6)	PE-21	(6)
Chevrolet K	(1925)	EG-16	(8)	EH-26	(7)	EI-42	(1)	PB-25	(7)	PC-23	(26)	PE-47	(27)
Chevrolet V	(1926)	EG-16	(8)	EH-26	(7)	EI-43	(3)	PB-25	(7)	PC-23	(26)	PE-47	(27)
Chevrolet AA	(1927)	EG-16	(8)	EH-26	(7)	EI-43	(3)	PB-25	(7)	PC-23	(26)	PE-47	(27)
Chevrolet AB	(1928)	EG-16	(8)	EH-26	(7)	EI-43	(3)	PB-25	(7)	PC-23	(26)	PE-47	(27)
Chevrolet AC	(1929)	EG-16	(8)	EH-27	(2)	EI-44	(1)	PB-26	(2)	PC-24	(2)	PE-25	(1)
Chrysler 6-B	(1925)	EG-10	(3)	EH-28	(3)	EI-69	(1)	PB-27	(3)	PC-25	(3)	PE-26	(3)
Chrysler 58	(1926)	Inter.		EH-29	(1)	EI-70	(2)	PB-28	(2)	PC-4	(90)	PE-27	(3)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

CLUTCH and TRANSMISSION—Continued

Car Make and Model	Clutch			Transmission		
	Clutch Facings (Lining)	Clutch Shaft	Clutch Discs	High and Intermediate Sliding Gear	Low and Reverse Sliding Gear	Countershaft Gear Cluster
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column						
Chrysler 70 (1926)	Inter.	EH-28 (3)	EI-71 (4)	PB-27 (3)	PC-25 (3)	PE-26 (3)
Chrysler 80 (1926)	Inter.	EH-30 (2)	EI-72 (2)	PB-30 (2)	PC-27 (2)	PE-28 (2)
Chrysler 50 (1927)	Seg.	EH-31 (4)	EI-73 (2)	PB-31 (3)	PC-28 (3)	PE-29 (3)
Chrysler 60 (Early 1927)	Inter.	EH-32 (1)	EI-71 (4)	PB-28 (2)	PC-4 (90)	PE-27 (3)
Chrysler 60 (Late 1927)	Inter.	EH-165 (1)	EI-71 (4)	PB-29 (1)	PC-26 (1)	PE-27 (3)
Chrysler 70 (1927)	Inter.	EH-28 (3)	EI-71 (4)	PB-27 (3)	PC-25 (3)	PE-26 (3)
Chrysler 80 (1927)	Inter.	EH-30 (2)	EI-72 (2)	PB-30 (2)	PC-27 (2)	PE-28 (2)
Chrysler 52 (1928)	Seg.	EH-31 (4)	EI-73 (2)	PB-31 (3)	PC-28 (3)	PE-29 (3)
Chrysler 62 (1928)	EG-2 (99)	EH-33 (4)	EI-7 (5)	PB-32 (4)	PC-29 (4)	PE-30 (4)
Chrysler 72 (1928)	EG-18 (2)	EH-33 (4)	EI-7 (5)	PB-32 (4)	PC-29 (4)	PE-30 (4)
Chrysler Imp. 80 (1928)	EG-17 (10)	EH-34 (2)	EI-74 (2)	PB-33 (2)	PC-30 (2)	PE-31 (2)
Chrysler 65 (1929)	EG-2 (99)	EH-33 (4)	EI-7 (5)	PB-32 (4)	PC-29 (4)	PE-30 (4)
Chrysler 75 (1929)	EG-18 (2)	EH-33 (4)	EI-7 (5)	PB-32 (4)	PC-29 (4)	PE-30 (4)
Chrysler Imp. 80 (1929)	EG-17 (10)	EH-34 (2)	EI-74 (2)	PB-33 (2)	PC-30 (2)	PE-31 (2)
Cleveland 31 (1925)	EG-1 (52)	EH-25 (3)	EI-6 (11)	PB-24 (3)	PC-22 (3)	PE-23 (3)
Cleveland 43 (1925)	EG-2 (99)	EH-23 (6)	EI-15 (9)	PB-22 (6)	PC-20 (6)	PE-21 (6)
Cleveland 31 (1926)	EG-1 (52)	EH-25 (3)	EI-6 (11)	PB-24 (3)	PC-22 (3)	PE-23 (3)
Cleveland 43 (1926)	EG-2 (99)	EH-23 (6)	EI-5 (6)	PB-22 (6)	PC-20 (6)	PE-21 (6)
Davis 90 (1925-26)	EG-2 (99)	EH-39 (10)	EI-1 (22)	PB-38 (12)	PC-35 (12)	PE-5 (31)
Davis 91 (1925-26)	EG-2 (99)	EH-39 (10)	EI-1 (22)	PB-38 (12)	PC-35 (12)	PE-5 (31)
Davis 92 (1926)	EG-2 (99)	EH-7 (15)	EI-1 (22)	PB-5 (19)	PC-5 (19)	PE-5 (31)
Davis 93 (1926)	EG-1 (52)	EH-7 (15)	EI-6 (11)	PB-5 (19)	PC-5 (19)	PE-5 (31)
Davis 92 (1927)	EG-2 (99)	EH-7 (15)	EI-8 (16)	PB-5 (19)	PC-5 (19)	PE-5 (31)
Davis 94 (1927)	EG-2 (99)	EH-7 (15)	EI-6 (11)	PB-5 (19)	PC-5 (19)	PE-5 (31)
Davis 98 (1927)	EG-2 (99)	EH-7 (15)	EI-78 (1)	PB-39 (2)	PC-36 (2)	PE-36 (2)
Davis 99 (1928)	EG-2 (99)	EH-7 (15)	EI-79 (1)	PB-39 (2)	PC-36 (2)	PE-36 (2)
De Soto (1929)	EG-1 (52)	EH-40 (3)	EI-10 (3)	PB-40 (7)	PC-37 (7)	PE-37 (7)
Diana Str. 8 (1926)	EG-2 (99)	EH-41 (3)	EI-9 (7)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Diana Str. 8 (1927)	EG-2 (99)	EH-41 (3)	EI-9 (7)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Diana Str. 8 (1928)	EG-2 (99)	EH-41 (3)	EI-9 (7)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Dodge Brothers 4 (1925)	EG-2 (99)	EH-42 (4)	EI-80 (1)	PB-41 (3)	PC-38 (2)	PE-38 (2)
Dodge Brothers 4 (1926)	EG-2 (99)	EH-42 (4)	EI-81 (1)	PB-41 (3)	PC-38 (2)	PE-38 (2)
Dodge Brothers 4 (1927)	EG-2 (99)	EH-42 (4)	EI-11 (3)	PB-41 (3)	PC-39 (1)	PE-39 (1)
Dodge Brothers Senior (1928)	EG-2 (99)	EH-42 (4)	EI-12 (2)	PB-43 (3)	PC-40 (3)	PE-40 (3)
Dodge Brothers Std. 6 (1928)	EG-2 (99)	EH-43 (2)	EI-11 (3)	PB-43 (3)	PC-40 (3)	PE-40 (3)
Dodge Brothers Vic. 6 (1928-29)	EG-2 (99)	EH-43 (2)	EI-11 (3)	PB-43 (3)	PC-40 (3)	PE-40 (3)
Dodge Brothers Senior (1929)	EG-2 (99)	EH-44 (2)	EI-12 (2)	PB-44 (2)	PC-41 (2)	PE-41 (2)
Dodge Brothers DA-6 (1929)	EG-2 (99)	EH-44 (2)	EI-7 (5)	PB-44 (2)	PC-41 (2)	PE-41 (2)
Dorris (1925)	EG-15 (17)	EH-45 (1)	EI-82 (1)	PB-45 (2)	PC-42 (5)	PE-42 (2)
du Pont D (1925)	EG-11 (7)	EH-48 (3)	EI-85 (3)	PB-48 (4)	PC-45 (4)	PE-45 (4)
du Pont D (1926)	EG-11 (7)	EH-48 (3)	EI-85 (3)	PB-48 (4)	PC-45 (4)	PE-45 (4)
du Pont E (1927)	EG-11 (7)	EH-48 (3)	EI-85 (3)	PB-48 (4)	PC-45 (4)	PE-45 (4)
du Pont E, F (1928)	EG-28 (11)	EH-49 (3)	EI-86 (1)	PB-48 (4)	PC-45 (4)	PE-45 (4)
du Pont E (1929)	EG-29 (2)	EH-49 (3)	EI-87 (1)	PB-49 (2)	PC-46 (2)	PE-46 (2)
du Pont G (1929)	EG-6 (32)	EH-49 (3)	EI-88 (1)	PB-49 (2)	PC-46 (2)	PE-46 (2)
Durant A-22 (1925)	Seg.	EH-50 (1)	EI-89 (1)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant D-55 (1928)	Seg.	EH-51 (8)	EI-90 (3)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant 65 (1928)	Seg.	EH-51 (8)	EI-90 (3)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant M2 (1928-29)	Seg.	EH-51 (8)	EI-91 (1)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant 75 (1928-29)	Seg.	EH-51 (8)	EI-90 (3)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant 4-40 (1929)	Seg.	EH-51 (8)	EI-92 (1)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant 6-60 (1929)	Seg.	EH-51 (8)	EI-93 (1)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant 66 (1929)	Seg.	EH-51 (8)	EI-13 (2)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Durant 70 (1929)	Seg.	EH-51 (8)	EI-13 (2)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Elcar 4-40 (1925)	EG-1 (52)	EH-39 (10)	EI-1 (22)	PB-38 (12)	PC-35 (12)	PE-5 (31)
Elcar 6-50 (1925)	EG-1 (52)	EH-39 (10)	EI-1 (22)	PB-38 (12)	PC-35 (12)	PE-5 (31)
Elcar 6-60 (1925)	EG-1 (52)	EH-39 (10)	EI-1 (22)	PB-38 (12)	PC-35 (12)	PE-5 (31)
Elcar 8-80 (1925)	EG-2 (99)	EH-6 (20)	EI-1 (22)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Elcar 4-55 (1926)	EG-1 (52)	EH-39 (10)	EI-6 (11)	PB-38 (12)	PC-35 (12)	PE-5 (31)
Elcar 6-65 (1926)	EG-1 (52)	EH-6 (20)	EI-1 (22)	PB-38 (12)	PC-35 (12)	PE-5 (31)
Elcar 8-81 (1926)	EG-2 (99)	EH-6 (20)	EI-1 (22)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Elcar 6-70 (1927)	EG-6 (32)	EH-6 (20)	EI-94 (3)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Elcar 8-82 (1927)	EG-5 (12)	EH-6 (20)	EI-95 (2)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Elcar 8-90 (1927)	EG-8 (5)	EH-8 (9)	EI-96 (1)	PB-6 (7)	PC-4 (90)	PE-6 (7)
Elcar 8-91 (1928)	EG-8 (5)	EH-8 (9)	EI-97 (1)	PB-6 (7)	PC-4 (90)	PE-6 (7)
Elcar 120 (1928)	EG-6 (32)	EH-8 (9)	EI-98 (2)	PB-6 (7)	PC-4 (90)	PE-6 (7)
Elcar 6-70 (1928-29)	EG-6 (32)	EH-6 (20)	EI-94 (3)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Elcar 8-78 (1928-29)	EG-6 (32)	EH-52 (1)	EI-94 (3)	PB-5 (19)	PC-5 (19)	PE-5 (31)
Elcar 8-82 (1928-29)	EG-5 (12)	EH-6 (20)	EI-95 (2)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Elcar 75 (1929)	EG-6 (32)	EH-8 (5)	EI-99 (1)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Elcar 95, 96 (1929)	EG-7 (19)	EH-8 (9)	EI-100 (1)	PB-6 (7)	PC-4 (90)	PE-6 (7)
Elcar 120 (1929)	EG-6 (32)	EH-8 (9)	EI-98 (2)	PB-6 (7)	PC-4 (90)	PE-6 (7)
Erskine 6-50 (1927)	EG-6 (32)	EH-31 (4)	EI-101 (3)	PB-51 (1)	PC-47 (1)	PE-48 (1)
Erskine 6-51 (1928)	EG-6 (32)	EH-31 (4)	EI-101 (3)	PB-40 (7)	PC-37 (7)	PE-37 (7)
Erskine 6-52 (1929)	EG-6 (32)	EH-40 (3)	EI-101 (3)	PB-40 (7)	PC-37 (7)	PE-37 (7)
Essex 6 (1925)	None	EH-54 (1)	EI-45 (2)	PB-52 (5)	PC-48 (5)	PE-49 (5)
Essex 6 (1926)	None	EH-55 (1)	EI-45 (2)	PB-52 (5)	PC-48 (5)	PE-49 (5)
Essex Super 6 (1927)	None	EH-56 (3)	EI-46 (3)	PB-52 (5)	PC-48 (5)	PE-49 (5)
Essex Super 6 (1928)	None	EH-56 (3)	EI-46 (3)	PB-52 (5)	PC-48 (5)	PE-49 (5)
Essex Challenger (1929)	None	EH-56 (3)	EI-46 (3)	PB-52 (5)	PC-48 (5)	PE-49 (5)
Falcon Knight 10 (1927)	EG-1 (52)	EH-57 (2)	EI-14 (9)	PB-53 (7)	PC-49 (11)	PE-50 (7)
Falcon Knight 12 (1928)	EG-21 (4)	EH-57 (2)	EI-14 (9)	PB-53 (7)	PC-49 (11)	PE-50 (7)
Falcon Knight (1929)	EG-100 (1)	EH-58 (2)	EI-14 (9)	PB-54 (3)	PC-49 (11)	PE-51 (3)
Flint B40 (1925-26)	Seg.	EH-59 (3)	EI-102 (1)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Flint E55 (1925-26)	Seg.	EH-60 (3)	EI-103 (3)	PB-55 (3)	PC-50 (3)	PE-24 (3)
Flint 60 (1926)	Seg.	EH-59 (3)	EI-104 (2)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Flint 80 (1926)	Seg.	EH-60 (3)	EI-103 (3)	PB-55 (3)	PC-50 (3)	PE-24 (3)
Flint Jr. (1926)	Seg.	EH-61 (2)	EI-105 (2)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Flint 60 (1927)	Seg.	EH-59 (3)	EI-104 (2)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Flint 80 (1927)	Seg.	EH-60 (3)	EI-103 (3)	PB-55 (3)	PC-50 (3)	PE-24 (3)
Flint Jr. (1927)	Seg.	EH-61 (2)	EI-105 (2)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Ford A (1928)	EG-22 (1)	EH-62 (2)	EI-47 (2)	PB-56 (2)	PC-51 (2)	PE-52 (2)
Ford A (1929)	EG-23 (1)	EH-62 (2)	EI-47 (2)	PB-56 (2)	PC-51 (2)	PE-52 (2)
Franklin 11 (1925)	EG-2 (99)	EH-63 (3)	EI-106 (3)	PB-57 (3)	PC-52 (3)	PE-53 (3)
Franklin 11 (1926)	EG-2 (99)	EH-63 (3)	EI-106 (3)	PB-57 (3)	PC-52 (3)	PE-53 (3)
Franklin 11-B (1927)	EG-2 (99)	EH-63 (3)	EI-106 (3)	PB-57 (3)	PC-52 (3)	PE-53 (3)
Franklin Ser. 12 (1927-28)	EG-2 (99)	EH-64 (1)	EI-107 (2)	PB-58 (3)	PC-53 (3)	PE-54 (3)
Franklin 130 (1929)	EG-2 (99)	EH-65 (2)	EI-107 (2)	PB-58 (3)	PC-53 (3)	PE-54 (3)
Franklin 135, 137 (1929)	EG-24 (5)	EH-65 (2)	EI-108 (1)	PB-58 (3)	PC-53 (3)	PE-54 (3)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

CLUTCH and TRANSMISSION—Continued

Car Make and Mode	Clutch						Transmission					
	Clutch Facings (Lining)		Clutch Shaft		Clutch Discs		High and Intermediate Sliding Gear		Low and Reverse Sliding Gear		Countershaft Gear Cluster	
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column												
Gardner 6-A (1925)	EG-2	(99)	EH-66	(4)	EI-15	(9)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 8-A (1925)	EG-2	(99)	EH-67	(8)	EI-15	(9)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner Ser. 5 (1925)	EG-2	(99)	EH-68	(1)	EI-109	(1)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 6-B (1926)	EG-2	(99)	EH-66	(4)	EI-9	(7)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 8-B (1926)	EG-2	(99)	EH-67	(8)	EI-9	(7)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 80 (1927)	EG-1	(52)	EH-67	(8)	EI-18	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 90 (1927)	EG-2	(99)	EH-67	(8)	EI-9	(7)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 75 (1928)	EG-1	(52)	EH-67	(8)	EI-18	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 85 (1928)	EG-1	(52)	EH-66	(4)	EI-18	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 95 (1928)	EG-2	(99)	EH-67	(8)	EI-16	(1)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 120 (1929)	EG-1	(52)	EH-66	(4)	EI-19	(3)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 125 (1929)	EG-1	(52)	EH-67	(8)	EI-19	(3)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Gardner 130 (1929)	EG-2	(99)	EH-67	(8)	EI-17	(3)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Graham Paige 610 (Early 1928)	EG-6	(32)	EH-69	(1)	EI-110	(3)	PB-31	(3)	PC-28	(3)	PE-29	(3)
Graham Paige 610 (Late 1928)	EG-6	(32)	EH-70	(2)	EI-110	(3)	PB-40	(7)	PC-37	(7)	PE-37	(7)
Graham Paige 614 (1928-29)	EG-49	(2)	EH-71	(2)	EI-111	(5)	PB-59	(2)	PC-54	(2)	PE-55	(2)
Graham Paige 619 (1928-29)	EG-6	(32)	EH-72	(6)	EI-112	(3)	PB-60	(6)	PC-55	(6)	PE-56	(6)
Graham Paige 629 (1928-29)	EG-6	(32)	EH-72	(6)	EI-112	(3)	PB-60	(6)	PC-55	(6)	PE-56	(6)
Graham Paige 835 (1928-29)	EG-6	(32)	EH-72	(6)	EI-112	(3)	PB-60	(6)	PC-55	(6)	PE-56	(6)
Graham Paige 612 (1929)	EG-6	(32)	EH-70	(2)	EI-110	(3)	PB-40	(7)	PC-37	(7)	PE-37	(7)
Graham Paige 615 (1929)	EG-49	(2)	EH-71	(2)	EI-111	(5)	PB-59	(2)	PC-54	(2)	PE-55	(2)
Graham Paige 621 (1929)	EG-6	(32)	EH-72	(6)	EI-111	(5)	PB-60	(6)	PC-55	(6)	PE-56	(6)
Graham Paige 827 (1929)	EG-6	(32)	EH-72	(6)	EI-111	(5)	PB-60	(6)	PC-55	(6)	PE-56	(6)
Graham Paige 837 (1929)	EG-6	(32)	EH-72	(6)	EI-111	(5)	PB-60	(6)	PC-55	(6)	PE-56	(6)
Haynes 60 (1925)	EG-16	(8)	EH-74	(1)	EI-115	(1)	PB-62	(2)	PC-57	(1)	PE-58	(1)
Hudson Super 6 (1925)	None		EH-75	(2)	EI-48	(2)	PB-63	(6)	PC-58	(6)	PE-59	(6)
Hudson Super 6 (1926)	None		EH-75	(2)	EI-48	(2)	PB-63	(6)	PC-58	(6)	PE-59	(6)
Hudson Super 6 (1927)	None		EH-76	(4)	EI-49	(3)	PB-63	(6)	PC-58	(6)	PE-59	(6)
Hudson Super 6-O (1928)	None		EH-76	(4)	EI-49	(3)	PB-63	(6)	PC-58	(6)	PE-59	(6)
Hudson Super 6-S (1928)	None		EH-76	(4)	EI-49	(3)	PB-63	(6)	PC-58	(6)	PE-59	(6)
Hudson Greater 6 (1929)	None		EH-76	(4)	EI-50	(1)	PB-63	(6)	PC-58	(6)	PE-59	(6)
Hupmobile E1 (1925-26)	EG-4	(4)	EH-77	(2)	EI-116	(1)	PB-64	(6)	PC-59	(8)	PE-60	(6)
Hupmobile Ser. R (1925)	EG-4	(4)	EH-78	(1)	EI-117	(1)	PB-65	(1)	PC-60	(23)	PE-61	(1)
Hupmobile A1 (1926)	EG-1	(52)	EH-79	(4)	EI-18	(16)	PB-66	(2)	PC-6	(23)	PE-62	(2)
Hupmobile E2 (1926-27)	EG-5	(12)	EH-77	(2)	EI-118	(2)	PB-64	(6)	PC-59	(8)	PE-60	(6)
Hupmobile A2 (1927)	EG-1	(52)	EH-79	(4)	EI-18	(16)	PB-66	(2)	PC-6	(23)	PE-62	(2)
Hupmobile E3 (1927-28)	EG-6	(32)	EH-80	(1)	EI-118	(2)	PB-64	(6)	PC-59	(8)	PE-60	(6)
Hupmobile Cent. 6 (1928)	EG-1	(52)	EH-81	(2)	EI-20	(1)	PB-67	(5)	PC-6	(23)	PE-63	(5)
Hupmobile Cent. 8 (1928)	EG-6	(32)	EH-82	(3)	EI-119	(2)	PB-67	(5)	PC-6	(23)	PE-63	(5)
Hupmobile Cent. 125 (1928)	EG-6	(32)	EH-82	(3)	EI-119	(2)	PB-67	(5)	PC-6	(23)	PE-63	(5)
Hupmobile Cent. 6 (1929)	EG-1	(52)	EH-81	(2)	EI-19	(3)	PB-67	(5)	PC-6	(23)	PE-63	(5)
Hupmobile M8 (1929)	EG-25	(4)	EH-82	(3)	EI-120	(1)	PB-67	(5)	PC-6	(23)	PE-63	(5)
Jewett 6-50 (1925)	EG-5	(12)	EH-83	(1)	EI-121	(1)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Jewett New Day 6-49 (1926)	EG-21	(4)	EH-84	(1)	EI-122	(1)	PB-38	(12)	PC-35	(12)	PE-5	(31)
Jordan K, L (1925)	EG-5	(12)	EH-85	(1)	EI-123	(1)	PB-68	(1)	PC-6	(23)	PE-64	(1)
Jordan A (1925)	EG-5	(12)	EH-79	(4)	EI-124	(2)	PB-64	(6)	PC-59	(8)	PE-60	(6)
Jordan A (1926)	EG-5	(12)	EH-79	(4)	EI-124	(2)	PB-64	(6)	PC-59	(8)	PE-60	(6)
Jordan J (1926)	EG-26	(3)	EH-87	(6)	EI-125	(6)	PB-69	(6)	PC-4	(90)	PE-65	(6)
Jordan AA (1927-28)	EG-5	(12)	EH-86	(3)	EI-126	(3)	PB-64	(6)	PC-59	(8)	PE-60	(6)
Jordan J1 (1927-28)	EG-26	(3)	EH-87	(6)	EI-125	(6)	PB-69	(6)	PC-4	(90)	PE-65	(6)
Jordan R (1927-28)	EG-6	(32)	EH-88	(1)	EI-127	(2)	PB-70	(1)	PC-62	(6)	PE-66	(1)
Jordan JJ (1928-29)	EG-26	(3)	EH-87	(6)	EI-125	(6)	PB-69	(6)	PC-4	(90)	PE-65	(6)
Jordan JE (1928-29)	EG-7	(19)	EH-87	(6)	EI-125	(6)	PB-69	(6)	PC-4	(90)	PE-65	(6)
Jordan E (1929)	EG-25	(4)	EH-87	(6)	EI-125	(6)	PB-69	(6)	PC-4	(90)	PE-65	(6)
Jordan G (1929)	EG-25	(4)	EH-87	(6)	EI-125	(6)	PB-69	(6)	PC-4	(90)	PE-65	(6)
Kissel 6-55 (1925)	EG-2	(99)	EH-5	(10)	EI-1	(22)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-75 (1925)	EG-9	(33)	EH-6	(20)	EI-1	(22)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 6-55 (1926)	EG-2	(99)	EH-5	(10)	EI-1	(22)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-75 (1926)	EG-9	(33)	EH-6	(20)	EI-1	(22)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 6-55 (1927)	EG-2	(99)	EH-5	(10)	EI-8	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-65 (1927)	EG-2	(99)	EH-5	(10)	EI-8	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-75 (1927)	EG-9	(33)	EH-6	(20)	EI-8	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 6-70 (1928)	EG-1	(52)	EH-6	(20)	EI-22	(1)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-80 (1928)	EG-2	(99)	EH-5	(10)	EI-6	(11)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-80-S (1928)	EG-2	(99)	EH-5	(10)	EI-6	(11)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-90 (1928)	EG-9	(33)	EH-6	(20)	EI-21	(19)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 6-73 (1929)	EG-1	(52)	EH-6	(20)	EI-8	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-95 (1929)	EG-2	(99)	EH-5	(10)	EI-8	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Kissel 8-126 (1929)	EG-9	(33)	EH-6	(20)	EI-21	(19)	PB-4	(75)	PC-4	(90)	PE-4	(75)
La Salle 303 (1927)	EG-13	(4)	EH-18	(4)	EI-38	(3)	PB-18	(5)	PC-16	(5)	PE-17	(5)
La Salle 303 (1928)	EG-13	(4)	EH-18	(4)	EI-40	(4)	PB-18	(5)	PC-16	(5)	PE-17	(5)
La Salle 328 (1929)	EG-14	(4)	EH-19	(3)	EI-40	(4)	PB-18	(5)	PC-16	(5)	PE-17	(5)
Lexington Concord (1925)	EG-28	(11)	EH-90	(3)	EI-126	(3)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Lexington Minute Man (1925)	EG-28	(11)	EH-89	(2)	EI-126	(3)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Lexington 6-50 (1926)	EG-28	(11)	EH-89	(2)	EI-127	(2)	PB-90	(3)	PC-42	(5)	PE-86	(3)
Lincoln 8 (1925)	EG-27	(4)	EH-91	(5)	EI-51	(5)	PB-71	(5)	PC-62	(6)	PE-67	(5)
Lincoln 8 (1926)	EG-27	(4)	EH-91	(5)	EI-51	(5)	PB-71	(5)	PC-62	(6)	PE-67	(5)
Lincoln 8 (1927)	EG-27	(4)	EH-91	(5)	EI-51	(5)	PB-71	(5)	PC-62	(6)	PE-67	(5)
Lincoln 8 (1928)	EG-28	(11)	EH-91	(5)	EI-51	(5)	PB-71	(5)	PC-62	(6)	PE-67	(5)
Lincoln 8 (1929)	EG-28	(11)	EH-91	(5)	EI-51	(5)	PB-71	(5)	PC-62	(6)	PE-67	(5)
Locomobile Jr. 6 (1925)	Seg.		EH-92	(7)	EI-128	(3)	PB-72	(3)	PC-63	(3)	PE-68	(3)
Locomobile Jr. 8 (1925)	Seg.		EH-92	(7)	EI-128	(3)	PB-72	(3)	PC-63	(3)	PE-68	(3)
Locomobile 48 (1925)	Seg.		EH-93	(6)	EI-129	(1)	PB-73	(5)	PC-64	(5)	PE-69	(5)
Locomobile 48 (1926)	Seg.		EH-93	(6)	EI-130	(4)	PB-73	(5)	PC-64	(5)	PE-69	(5)
Locomobile 90 (1926)	Seg.		EH-94	(6)	EI-131	(1)	PB-74	(4)	PC-65	(8)	PE-70	(4)
Locomobile Jr. 8 (1926)	Seg.		EH-92	(7)	EI-128	(3)	PB-72	(3)	PC-63	(3)	PE-68	(3)
Locomobile 48 (1927)	Seg.		EH-93	(6)	EI-130	(4)	PB-73	(5)	PC-64	(5)	PE-69	(5)
Locomobile 8-66 (1927)	Seg.		EH-9	(17)	EI-132	(1)	PB-7	(19)	PC-65	(8)	PE-7	(19)
Locomobile 8-80 (1927)	Seg.		EH-9	(17)	EI-21	(19)	PB-7	(19)	PC-65	(8)	PE-7	(19)
Locomobile 90 (1927)	Seg.		EH-94	(6)	EI-133	(3)	PB-74	(4)	PC-65	(8)	PE-70	(4)
Locomobile 48 (1928)	Seg.		EH-93	(6)	EI-130	(4)	PB-73	(5)	PC-64	(5)	PE-69	(5)
Locomobile 8-70 (1928)	EG-2	(99)	EH-9	(17)	EI-9	(7)	PB-7	(19)	PC-65	(8)	PE-7	(19)
Locomobile 8-80 (1928)	EG-9	(33)	EH-9	(17)	EI-21	(19)	PB-7	(19)	PC-65	(8)	PE-7	(19)
Locomobile 90 (1928)	Seg.		EH-94	(6)	EI-133	(3)	PB-74	(4)	PC-65	(8)	PE-70	(4)
Locomobile 48 (1929)	Seg.		EH-93	(6)	EI-130	(4)	PB-73	(5)	PC-64	(5)	PE-69	(5)
Locomobile 8-80 (1929)	EG-9	(33)	EH-9	(17)	EI-21	(19)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Locomobile 86, 88 (1929)	EG-9	(33)	EH-9	(17)	EI-134	(1)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Locomobile 90 (1929)	Seg.		EH-94	(6)	EI-133	(3)	PB-74	(4)	PC-65	(8)	PE-70	(4)
Marmon 74 (1925)	EG-29	(2)	EH-92	(7)	EI-135	(2)	PB-75	(2)	PC-61	(2)	PE-71	(2)
Marmon 74 (1926)	EG-27	(4)	EH-92	(7)	EI-135	(2)	PB-75	(2)	PC-61	(2)	PE-71	(2)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

CLUTCH and TRANSMISSION—Continued

Car Make and Model	Clutch						Transmission					
	Clutch Facings (Lining)		Clutch Shaft		Clutch Discs		High and Intermediate Sliding Gear		Low and Reverse Sliding Gear		Countershaft Gear Cluster	
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column												
Marmon Little (1927)	Seg.		EH-93	(6)	EI-136	(1)	PB-76	(1)	PC-66	(1)	PE-72	(1)
Marmon E75 (1927)	EG-30	(2)	EH-92	(7)	EI-24	(2)	PB-77	(2)	PC-67	(2)	PE-73	(2)
Marmon 68 (1928)	Seg.		EH-94	(6)	EI-137	(2)	PB-78	(2)	PC-68	(2)	PE-74	(2)
Marmon E75 (1928)	EG-30	(2)	EH-92	(7)	EI-24	(2)	PB-77	(2)	PC-67	(2)	PE-73	(2)
Marmon 78 (1928)	Seg.		EH-95	(2)	EI-138	(2)	PB-79	(2)	PC-69	(2)	PE-75	(2)
Marmon 68 (1929)	Seg.		EH-94	(6)	EI-137	(2)	PB-78	(2)	PC-68	(2)	PE-74	(2)
Marmon 78 (1929)	Seg.		EH-95	(2)	EI-138	(2)	PB-79	(2)	PC-69	(2)	PE-75	(2)
Marmon T8 (1929)	Seg.		EH-96	(1)	EI-139	(1)	PB-40	(7)	PC-37	(7)	PE-37	(7)
Marmon, Roosevelt (1929)	Seg.		EH-138	(1)	EI-168	(2)	PB-103	(1)	PC-90	(1)	PE-97	(1)
Maxwell 25 (1925)	EG-3	(1)	EH-97	(1)	EI-70	(2)	PB-80	(3)	PC-70	(2)	PE-76	(1)
Moon Series A (1925)	EG-2	(99)	EH-39	(10)	EI-15	(9)	PB-38	(12)	PC-35	(12)	PE-5	(31)
Moon Series A (1926)	EG-2	(99)	EH-39	(10)	EI-15	(9)	PB-38	(12)	PC-35	(12)	PE-5	(31)
Moon Series A (1927)	EG-2	(99)	EH-39	(10)	EI-15	(9)	PB-38	(12)	PC-35	(12)	PE-5	(31)
Moon 6-60 (1927)	EG-1	(52)	EH-7	(15)	EI-6	(11)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Moon Series A (1928)	EG-2	(99)	EH-39	(10)	EI-15	(9)	PB-38	(12)	PC-35	(12)	PE-5	(31)
Moon 6-60 (1928)	EG-1	(52)	EH-7	(15)	EI-6	(11)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Moon 6-72 (1928)	EG-2	(99)	EH-99	(2)	EI-15	(9)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Moon 8-80 (1928)	EG-2	(99)	EH-6	(20)	EI-17	(3)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Moon 6-72 (1929)	EG-2	(99)	EH-99	(2)	EI-25	(1)	PB-5	(19)	PC-5	(19)	PE-5	(31)
Nash Adv. 6 (1925)	EG-2	(99)	EH-100	(2)	EI-28	(4)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Spec. 6 (1925)	EG-2	(99)	EH-100	(2)	EI-27	(2)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Adv. 6 (1926)	EG-9	(33)	EH-101	(3)	EI-28	(4)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Spec. 6 (1926)	EG-2	(99)	EH-102	(3)	EI-27	(2)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Adv. 6 (1927)	EG-9	(33)	EH-101	(3)	EI-28	(4)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Spec. 6 (1927)	EG-2	(99)	EH-102	(3)	EI-29	(2)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Light 6 (1927)	EG-1	(52)	EH-1	(4)	EI-26	(7)	PB-1	(4)	PC-1	(4)	PE-1	(4)
Nash Adv. 6 (1928)	EG-9	(33)	EH-101	(3)	EI-28	(4)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Spec. 6 (1928)	EG-2	(99)	EH-102	(3)	EI-29	(2)	PB-81	(8)	PC-71	(10)	PE-77	(8)
Nash Std. 6 (1928)	EG-1	(52)	EH-1	(4)	EI-26	(7)	PB-1	(4)	PC-1	(4)	PE-1	(4)
Nash Adv. 6 (1929)	EG-9	(33)	EH-103	(2)	EI-30	(1)	PB-82	(2)	PC-71	(10)	PE-78	(2)
Nash Spec. 6 (1929)	EG-2	(99)	EH-103	(2)	EI-31	(1)	PB-82	(2)	PC-71	(10)	PE-78	(2)
Nash Std. 6 (1929)	EG-1	(52)	EH-1	(4)	EI-26	(7)	PB-1	(4)	PC-1	(4)	PE-1	(4)
Oakland 6-54 (1925)	EG-31	(7)	EH-104	(3)	EI-52	(6)	PB-83	(3)	PC-72	(3)	PE-79	(3)
Oakland O6 (1926)	EG-31	(7)	EH-104	(3)	EI-52	(6)	PB-83	(3)	PC-72	(3)	PE-79	(3)
Oakland GO6 (1927)	EG-31	(7)	EH-104	(3)	EI-52	(6)	PB-83	(3)	PC-72	(3)	PE-79	(3)
Oakland AA-6 (1928)	EG-31	(7)	EH-105	(2)	EI-52	(6)	PB-84	(4)	PC-73	(4)	PE-80	(4)
Oakland AA-6 (1929)	EG-31	(7)	EH-105	(2)	EI-52	(6)	PB-84	(4)	PC-73	(4)	PE-80	(4)
Oldsmobile C (1925)	EG-1	(52)	EH-106	(1)	EI-26	(7)	PB-85	(1)	PC-74	(1)	PE-81	(1)
Oldsmobile D (1926)	EG-1	(52)	EH-107	(1)	EI-26	(7)	PB-86	(2)	PC-75	(2)	PE-82	(2)
Oldsmobile E (1927)	EG-1	(52)	EH-108	(1)	EI-26	(7)	PB-86	(2)	PC-75	(2)	PE-82	(2)
Oldsmobile F28 (1928)	EG-1	(52)	EH-109	(2)	EI-10	(5)	PB-84	(4)	PC-73	(4)	PE-80	(4)
Oldsmobile F29 (1929)	EG-1	(52)	EH-109	(2)	EI-10	(5)	PB-84	(4)	PC-73	(4)	PE-80	(4)
Overland 91 (1925)	EG-32	(2)	EH-110	(2)	EI-33	(2)	PB-53	(7)	PC-49	(11)	PE-50	(7)
Overland 93 (1925)	EG-1	(52)	EH-111	(3)	EI-14	(9)	PB-53	(7)	PC-49	(11)	PE-50	(7)
Overland 91 (1926)	EG-32	(2)	EH-110	(2)	EI-33	(2)	PB-53	(7)	PC-49	(11)	PE-50	(7)
Overland 93 (1926)	EG-1	(52)	EH-111	(3)	EI-14	(9)	PB-53	(7)	PC-49	(11)	PE-50	(7)
Packard 6 Cyl. 326-333 (1925)	EG-34	(5)	EH-115	(4)	EI-140	(4)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 8 Cyl. 236-243 (1925)	EG-34	(5)	EH-115	(4)	EI-140	(4)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 6 Cyl. 326-333 (1926)	EG-34	(5)	EH-115	(4)	EI-140	(4)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 8 Cyl. 236-243 (1926)	EG-34	(5)	EH-115	(4)	EI-140	(4)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 6 Cyl. 426-433 (1927)	EG-7	(19)	EH-116	(10)	EI-141	(5)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 8 Cyl. 336-343 (1927)	EG-34	(5)	EH-116	(10)	EI-142	(5)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 6 Cyl. 526 (1928)	EG-17	(10)	EH-116	(10)	EI-141	(5)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard Std. 8, 443 (1928)	EG-7	(19)	EH-116	(10)	EI-142	(5)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 6 Cyl. 533 (1928)	EG-17	(10)	EH-116	(10)	EI-141	(5)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 626 (1929)	EG-17	(10)	EH-116	(10)	EI-143	(2)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 633 (1929)	EG-17	(10)	EH-116	(10)	EI-143	(2)	PB-89	(12)	PC-77	(11)	PE-85	(12)
Packard 640-645 (1929)	EG-7	(19)	EH-116	(10)	EI-142	(5)	PB-89	(12)	PC-7	(2)	PE-85	(12)
Paige 6-70 (1925-26)	EG-35	(3)	EH-116	(10)	EI-144	(1)	PB-45	(2)	PC-42	(5)	PE-42	(2)
Paige 6-45 (1926)	EG-35	(3)	EH-116	(10)	EI-145	(2)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Paige 6-45 (1927-28)	EG-35	(3)	EH-117	(3)	EI-145	(2)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Paige 6-65 (1927-28)	EG-28	(11)	EH-117	(3)	EI-146	(2)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Paige 6-75 (1927-28)	EG-28	(11)	EH-117	(3)	EI-146	(2)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Paige 8-85 (1927-28)	EG-28	(11)	EH-118	(1)	EI-147	(1)	PB-91	(1)	PC-78	(1)	PE-87	(1)
Peerless 70 (1925)	EG-15	(17)	EH-119	(4)	EI-148	(1)	PB-92	(5)	PC-79	(5)	PE-88	(5)
Peerless 6-80 (1926)	EG-2	(99)	EH-121	(2)	EI-8	(16)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 8-69 (1926)	EG-9	(33)	EH-119	(4)	EI-21	(19)	PB-92	(5)	PC-79	(5)	PE-88	(5)
Peerless 6-60 (1927)	EG-2	(99)	EH-121	(2)	EI-8	(16)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 8-69 (1927)	EG-9	(33)	EH-119	(4)	EI-21	(19)	PB-92	(5)	PC-79	(5)	PE-88	(5)
Peerless 6-80 (1927)	EG-2	(99)	EH-9	(17)	EI-8	(16)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 6-90 (1927)	EG-9	(33)	EH-9	(17)	EI-21	(19)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 6-72 (1927-28)	EG-9	(33)	EH-122	(1)	EI-154	(1)	PB-92	(5)	PC-79	(5)	PE-88	(5)
Peerless 6-60 (1928)	EG-2	(99)	EH-9	(17)	EI-8	(16)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 8-69 (1928)	EG-9	(33)	EH-119	(4)	EI-21	(19)	PB-92	(5)	PC-79	(5)	PE-88	(5)
Peerless 6-80 (1928)	EG-2	(99)	EH-9	(17)	EI-8	(16)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 6-91 (1928)	EG-9	(33)	EH-9	(17)	EI-21	(19)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 6-61 (1929)	EG-2	(99)	EH-9	(17)	EI-8	(16)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 6-81 (1929)	EG-2	(99)	EH-9	(17)	EI-8	(16)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 6-91 (1929)	EG-9	(33)	EH-9	(17)	EI-21	(19)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Peerless 125 (1929)	EG-9	(33)	EH-9	(17)	EI-149	(1)	PB-7	(19)	PC-6	(23)	PE-7	(19)
Pierce Arrow 80 (1925)	EG-24	(5)	EH-124	(4)	EI-150	(4)	PB-93	(3)	PC-80	(3)	PE-89	(3)
Pierce Arrow 33 (1926)	EG-36	(1)	EH-125	(3)	EI-151	(1)	PB-94	(3)	PC-81	(3)	PE-90	(3)
Pierce Arrow 80 (1926)	EG-24	(5)	EH-124	(4)	EI-150	(4)	PB-93	(3)	PC-80	(3)	PE-89	(3)
Pierce Arrow 36 (1927)	EG-37	(2)	EH-125	(3)	EI-152	(2)	PB-94	(3)	PC-81	(3)	PE-90	(3)
Pierce Arrow 80 (1927)	EG-24	(5)	EH-124	(4)	EI-150	(4)	PB-93	(3)	PC-80	(3)	PE-89	(3)
Pierce Arrow 36 (1928)	EG-37	(2)	EH-125	(3)	EI-152	(2)	PB-94	(3)	PC-81	(3)	PE-90	(3)
Pierce Arrow 81 (1928)	EG-24	(5)	EH-124	(4)	EI-150	(4)	PB-95	(1)	PC-82	(1)	PE-91	(1)
Pierce Arrow 133, 143 (1929)	EG-6	(32)	EH-126	(1)	EI-153	(1)	PB-96	(1)	PC-83	(1)	PE-92	(1)
Plymouth, 4 Cyl. (1929)	Seg.		EH-40	(3)	EI-155	(1)	PB-40	(7)	PC-37	(7)	PE-37	(7)
Pontiac 6 (1926)	EG-16	(8)	EH-26	(7)	EI-53	(2)	PB-25	(7)	PC-23	(26)	PE-47	(27)
Pontiac 6 (1927)	EG-16	(8)	EH-26	(7)	EI-53	(2)	PB-25	(7)	PC-23	(26)	PE-47	(27)
Pontiac 6 (1928)	EG-31	(7)	EH-26	(7)	EI-54	(1)	PB-25	(7)	PC-23	(26)	PE-47	(27)
Pontiac Big 6 (1929)	EG-31	(7)	EH-27	(2)	EI-55	(1)	PB-26	(2)	PC-24	(2)	PE-47	(27)
Reo T6 (1925)	EG-38	(2)	EH-127	(2)	EI-156	(2)	PB-97	(2)	PC-84	(2)	PE-93	(2)
Reo T6 (1926-27)	EG-38	(2)	EH-127	(2)	EI-156	(2)	PB-97	(2)	PC-84	(2)	PE-93	(2)
Reo Flying Cloud (1927)	EG-7	(19)	EH-128	(3)	EI-157	(1)	PB-98	(3)	PC-85	(3)	PE-94	(3)
Reo Wolverine (1927)	EG-2	(99)	EH-6	(20)	EI-8	(16)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Reo Flying Cloud (1928)	EG-7	(19)	EH-128	(3)	EI-158	(2)	PB-98	(3)	PC-85	(3)	PE-94	(3)
Reo Wolverine (1928)	EG-2	(99)	EH-6	(20)	EI-23	(2)	PB-4	(75)	PC-4	(90)	PE-4	(75)
Reo Flying Cloud Master (1929)	EG-7	(19)	EH-128	(3)	EI-158	(2)	PB-98	(3)	PC-85	(3)	PE-94	(3)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

CLUTCH and TRANSMISSION—Continued

Car Make and Model	Clutch			Transmission		
	Clutch Facings (Lining)	Clutch Shaft	Clutch Discs	High and Intermediate Sliding Gear	Low and Reverse Sliding Gear	Countershaft Gear Cluster
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column						
Reo Flying Cloud Mate....(1929)	EG-2 (99)	EH-6 (20)	EI-23 (2)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rickenbacker 8-A....(1925)	EG-39 (3)	EH-131 (2)	EI-161 (1)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rickenbacker D6....(1925)	EG-28 (11)	EH-132 (5)	EI-162 (1)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rickenbacker 8-B....(1926)	EG-28 (11)	EH-131 (2)	EI-163 (1)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rickenbacker 6-E....(1926)	EG-7 (19)	EH-132 (5)	EI-164 (3)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rickenbacker 6-70....(1927)	EG-6 (32)	EH-132 (5)	EI-164 (3)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rickenbacker 8-80....(1927)	EG-6 (32)	EH-132 (5)	EI-164 (3)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rickenbacker 8-90....(1927)	EG-40 (1)	EH-132 (5)	EI-165 (1)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 4-75-E....(1925)	EG-15 (17)	EH-133 (2)	EI-166 (1)	PB-100 (2)	PC-87 (2)	PE-108 (2)
Roamer 6-54-E....(1925)	EG-2 (99)	EH-134 (3)	EI-167 (4)	PB-101 (3)	PC-88 (3)	PE-109 (3)
Roamer 4-75-E....(1926)	EG-15 (17)	EH-133 (2)	EI-168 (2)	PB-100 (2)	PC-87 (2)	PE-108 (2)
Roamer 6-50....(1925-26)	EG-2 (99)	EH-134 (3)	EI-167 (4)	PB-101 (3)	PC-88 (3)	PE-109 (3)
Roamer 8-88....(1925-26)	EG-41 (5)	EH-135 (5)	EI-167 (4)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 6-54-E....(1926)	EG-2 (99)	EH-134 (3)	EI-167 (4)	PB-101 (3)	PC-88 (3)	PE-109 (3)
Roamer 8-78....(1927)	EG-41 (5)	EH-135 (5)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-80....(1927)	EG-2 (99)	EH-136 (4)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-78....(1927)	EG-41 (5)	EH-135 (5)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-80....(1927)	EG-2 (99)	EH-136 (4)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-88....(1927)	EG-1 (52)	EH-137 (4)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-78....(1928)	EG-1 (52)	EH-137 (4)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-80....(1928)	EG-2 (99)	EH-136 (4)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-88....(1928)	EG-41 (5)	EH-135 (5)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-78....(1929)	EG-1 (52)	EH-137 (4)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-80....(1929)	EG-2 (99)	EH-136 (4)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Roamer 8-88....(1929)	EG-41 (5)	EH-135 (5)	EI-18 (16)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Rollin G....(1925)	EG-1 (52)	EH-137 (4)	EI-35 (1)	PB-102 (4)	PC-89 (4)	PE-96 (4)
Star F....(1925)	Seg.	EH-139 (5)	EI-169 (1)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Star M....(1926)	Seg.	EH-139 (5)	EI-170 (4)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Star R....(1926)	Seg.	EH-139 (5)	EI-170 (4)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Star M....(1927)	Seg.	EH-139 (5)	EI-170 (4)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Star R....(1927)	Seg.	EH-139 (5)	EI-170 (4)	PB-50 (19)	PC-23 (26)	PE-47 (27)
Stearns Knight....(1925)	EG-2 (99)	EH-140 (4)	EI-171 (2)	PB-104 (6)	PC-91 (6)	PE-98 (6)
Stearns Knight B....(1925)	EG-43 (5)	EH-140 (4)	EI-171 (2)	PB-104 (6)	PC-91 (6)	PE-98 (6)
Stearns Knight C....(1925)	EG-2 (99)	EH-141 (3)	EI-172 (1)	PB-104 (6)	PC-91 (6)	PE-98 (6)
Stearns Knight S....(1925)	EG-43 (5)	EH-141 (3)	EI-173 (1)	PB-104 (6)	PC-91 (6)	PE-98 (6)
Stearns Knight B....(1926)	EG-43 (5)	EH-140 (4)	EI-174 (1)	PB-104 (6)	PC-91 (6)	PE-98 (6)
Stearns Knight 75....(1926)	EG-2 (99)	EH-140 (4)	EI-175 (1)	PB-104 (6)	PC-91 (6)	PE-98 (6)
Stearns Knight 95....(1926)	EG-43 (5)	EH-141 (3)	EI-176 (1)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Stearns Knight F-6-85....(1927)	EG-43 (5)	EH-142 (2)	EI-21 (19)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Stearns Knight G-8-85....(1927)	EG-42 (1)	EH-143 (1)	EI-21 (19)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Stearns Knight 6....(1928)	EG-9 (33)	EH-144 (1)	EI-21 (19)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Stearns Knight F-6-85....(1928)	EG-9 (33)	EH-142 (2)	EI-21 (19)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Stearns Knight H. J....(1928)	EG-7 (19)	EH-145 (2)	EI-21 (19)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Stearns Knight H&J, 8-90....(1929)	EG-7 (19)	EH-145 (2)	EI-177 (1)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Stearns Knight M&N, 6-80....(1929)	EG-9 (33)	EH-146 (1)	EI-178 (1)	PB-105 (8)	PC-92 (8)	PE-99 (8)
Studebaker Big 6....(1925)	EG-44 (4)	EH-148 (6)	EI-180 (1)	PB-107 (6)	PC-94 (6)	PE-101 (6)
Studebaker Spec. 6....(1925)	EG-44 (4)	EH-148 (6)	EI-181 (2)	PB-107 (6)	PC-94 (6)	PE-101 (6)
Studebaker Std. 6....(1925)	EG-46 (2)	EH-149 (5)	EI-182 (1)	PB-108 (5)	PC-95 (5)	PE-102 (5)
Studebaker Big 6....(1926)	EG-44 (4)	EH-148 (6)	EI-181 (2)	PB-107 (6)	PC-94 (6)	PE-101 (6)
Studebaker Std. 6....(1926)	EG-46 (2)	EH-149 (5)	EI-183 (1)	PB-108 (5)	PC-95 (5)	PE-102 (5)
Studebaker Spec. 6....(1926)	EG-44 (4)	EH-148 (6)	EI-184 (3)	PB-107 (6)	PC-94 (6)	PE-101 (6)
Studebaker Big 6....(1927)	EG-17 (10)	EH-148 (6)	EI-185 (2)	PB-107 (6)	PC-94 (6)	PE-101 (6)
Studebaker Spec. 6....(1927)	EG-17 (10)	EH-148 (6)	EI-184 (3)	PB-107 (6)	PC-94 (6)	PE-101 (6)
Studebaker Std. 6....(1927)	EG-7 (19)	EH-149 (5)	EI-184 (3)	PB-108 (5)	PC-95 (5)	PE-102 (5)
Studebaker Com....(1928)	EG-17 (10)	EH-150 (3)	EI-185 (2)	PB-109 (5)	PC-96 (5)	PE-103 (5)
Studebaker Dict....(1928)	EG-25 (4)	EH-149 (5)	EI-186 (2)	PB-108 (5)	PC-95 (5)	PE-102 (5)
Studebaker Pres. 8....(1928)	EG-6 (32)	EH-151 (2)	EI-187 (2)	PB-109 (5)	PC-96 (5)	PE-103 (5)
Studebaker Com. 6....(1929)	EG-7 (19)	EH-150 (3)	EI-188 (2)	PB-109 (5)	PC-96 (5)	PE-103 (5)
Studebaker Com. 8....(1929)	EG-7 (19)	EH-150 (3)	EI-188 (2)	PB-109 (5)	PC-96 (5)	PE-103 (5)
Studebaker Dict....(1929)	EG-7 (19)	EH-149 (5)	EI-186 (2)	PB-108 (5)	PC-95 (5)	PE-102 (5)
Studebaker Pres....(1929)	EG-6 (32)	EH-151 (2)	EI-187 (2)	PB-109 (5)	PC-96 (5)	PE-103 (5)
Stutz 694....(1925)	EG-2 (99)	EH-90 (3)	EI-1 (22)	PB-90 (3)	PC-42 (5)	PE-86 (3)
Stutz 695....(1925)	EG-2 (99)	EH-90 (3)	EI-1 (22)	PB-90 (3)	PC-42 (5)	PE-86 (3)
Stutz AA....(1926)	EG-9 (33)	EH-153 (2)	EI-21 (19)	PB-110 (2)	PC-59 (8)	PE-104 (2)
Stutz AA....(1927)	EG-9 (33)	EH-153 (2)	EI-21 (19)	PB-110 (2)	PC-59 (8)	PE-104 (2)
Stutz BB....(1928)	EG-9 (33)	EH-86 (3)	EI-1 (22)	PB-80 (3)	PC-97 (2)	PE-84 (3)
Stutz M....(1929)	EG-9 (33)	EH-86 (3)	EI-3 (3)	PB-80 (3)	PC-97 (2)	PE-84 (3)
Velie 60....(1925)	EG-2 (99)	EH-154 (2)	EI-15 (9)	PB-102 (4)	PC-89 (4)	PE-96 (4)
Velie 60....(1926)	EG-2 (99)	EH-154 (2)	EI-8 (18)	PB-102 (4)	PC-89 (4)	PE-96 (4)
Velie Spec. 50....(1927)	EG-1 (7)	EH-7 (15)	EI-6 (11)	PB-102 (4)	PC-89 (4)	PE-96 (4)
Velie Std. 6....(1927)	EG-1 (7)	EH-155 (1)	EI-8 (16)	PB-5 (19)	PC-5 (19)	PE-5 (51)
Velie Std. 50....(1928)	EG-1 (7)	EH-7 (15)	EI-189 (2)	PB-5 (19)	PC-5 (19)	PE-5 (51)
Velie 6-66....(1928)	EG-1 (7)	EH-156 (1)	EI-189 (2)	PB-5 (19)	PC-5 (19)	PE-5 (51)
Velie 6-77....(1928)	EG-2 (99)	EH-157 (3)	EI-190 (1)	PB-5 (19)	PC-5 (19)	PE-5 (51)
Velie 8-88....(1928)	EG-9 (33)	EH-158 (4)	EI-21 (19)	PB-5 (19)	PC-5 (19)	PE-5 (51)
Viking....(1929)	EG-47 (1)	EH-159 (5)	EI-17 (3)	PB-111 (1)	PC-98 (1)	PE-105 (1)
Westcott 44....(1925)	EG-2 (99)	EH-5 (10)	EI-1 (22)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Westcott 60....(1925)	EG-2 (99)	EH-5 (10)	EI-1 (22)	PB-4 (75)	PC-4 (90)	PE-4 (75)
Whippet 96, 4 Cyl....(1927)	EG-33 (3)	EH-112 (1)	EI-32 (3)	PB-87 (3)	PC-76 (3)	PE-83 (3)
Whippet 93-A, 6 Cyl....(1927)	EG-1 (52)	EH-111 (3)	EI-14 (9)	PB-53 (7)	PC-49 (11)	PE-50 (7)
Whippet 96, 4 Cyl....(1928)	EG-1 (52)	EH-113 (2)	EI-32 (3)	PB-87 (3)	PC-76 (3)	PE-83 (3)
Whippet 98, 6 Cyl....(1928)	EG-33 (3)	EH-58 (2)	EI-34 (2)	PB-54 (3)	PC-49 (11)	PE-51 (3)
Whippet 96-A....(1929)	EG-33 (3)	EH-113 (2)	EI-32 (3)	PB-87 (3)	PC-76 (3)	PE-83 (3)
Whippet 98-A....(1929)	Seg.	EH-114 (1)	EI-34 (2)	PB-88 (1)	PC-49 (11)	PE-84 (3)
Wills Ste. Claire....(1925)	Inter.	EH-163 (2)	EI-197 (1)	PB-113 (4)	PC-100 (4)	PE-107 (4)
Wills Ste. Claire W, 6....(1925)	Inter.	EH-162 (2)	EI-198 (1)	PB-113 (4)	PC-100 (4)	PE-107 (4)
Wills Ste. Claire 6....(1926)	Inter.	EH-163 (2)	EI-199 (2)	PB-113 (4)	PC-100 (4)	PE-107 (4)
Wills Ste. Claire 8....(1926)	Inter.	EH-162 (2)	EI-199 (2)	PB-113 (4)	PC-100 (4)	PE-107 (4)
Willys Knight....(1925)	EG-48 (3)	EH-157 (3)	EI-191 (2)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight 65....(1925)	EG-48 (3)	EH-157 (3)	EI-191 (2)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight 66....(1926)	EG-48 (3)	EH-158 (4)	EI-192 (1)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight 70....(1926)	EG-1 (7)	EH-159 (5)	EI-14 (9)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight 66-A....(1927)	EG-9 (33)	EH-158 (4)	EI-193 (2)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight 70-A....(1927)	EG-1 (7)	EH-159 (5)	EI-14 (9)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight Great 6....(1928)	EG-9 (33)	EH-160 (1)	EI-194 (1)	PB-54 (3)	PC-49 (11)	PE-51 (3)
Willys Knight Std. 6....(1928)	EG-21 (4)	EH-161 (1)	EI-14 (9)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight Spec. 6....(1929)	EG-1 (7)	EH-159 (5)	EI-195 (1)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight 66-A....(1929)	EG-9 (33)	EH-158 (4)	EI-193 (2)	PB-112 (10)	PC-99 (10)	PE-106 (10)
Willys Knight 70-B....(1929)	EG-21 (4)	EH-159 (5)	EI-196 (1)	PB-112 (10)	PC-99 (10)	PE-106 (10)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.
Key to Abbreviations: Seg.—Segment. Inter.—Interwoven with disk.

Digitized by Google

AXLES—Front and Rear

Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the part is needed.
2. Follow this line across to the column pertaining to that part.
3. In this part column opposite your car model you will find the CHILTON NUMBER for the part you want.
4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from another local dealer.

Example: Suppose a Steering Knuckle **Pivot (King Pin) is** needed for a Gardner 95 (1928) car. Locate this car in the first column. Follow across to the column on Steering Knuckle Pivots which is the second column. Here you see the CHILTON NUMBER for this part is AE-7. The figure five (5) in parentheses alongside means that this CHILTON NUMBER occurs five times in this column, indicating that four or more other car models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number AE-7 opposite the Auburn 115 (1928-29), Auburn 120 (1929), Gardner 130 (1929) and Jordan G (1929) cars. The Steering Knuckle Pivots used in all these cars are interchangeable with the one in your Gardner 95 (1928) car.

For Axle and Wheel Bearing Data, See Pages 221 to 240

Car Make and Model	FRONT AXLE		REAR AXLE					
	Steering Knuckle Pivots (King Pins)	Steering Knuckle Pivot Bushings	Differential Case	Differential Spider or Cross Pin	Differential Spider Pinions	Differential Side Gears	Drive Pinion and Ring Gear	Axle Shafts
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Ajax.....(1925-26)	AE-1 (6)	AF-1 (6)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-1 (6)	BJ-1 (4)
Anderson 41.....(1925)	AE-2 (1)	AF-2 (1)	BD-2 (3)	BE-2 (1)	BF-2 (1)	BG-2 (1)	BI-2 (7)	BJ-2 (4)
Anderson 50.....(1925)	AE-3 (1)	AF-3 (1)	BD-3 (1)	BE-3 (1)	BF-3 (1)	BG-3 (1)	BI-3 (1)	BJ-3 (3)
Apperson 6, Col.....(1925)	AE-4 (69)	AF-4 (67)	BD-4 (6)	BE-5 (57)	BF-5 (61)	BG-4 (7)	BI-5 (36)	BJ-4 (12)
Apperson Str. 8, Col.....(1925)	AE-4 (69)	AF-4 (67)	BD-4 (6)	BE-5 (57)	BF-5 (61)	BG-4 (7)	BI-5 (36)	BJ-4 (12)
Apperson 6, Col.....(1926)	AE-4 (69)	AF-4 (67)	BD-4 (6)	BE-5 (57)	BF-5 (61)	BG-4 (7)	BI-5 (36)	BJ-4 (12)
Apperson Str. 8, Col.....(1926)	AE-4 (69)	AF-4 (67)	BD-4 (6)	BE-5 (57)	BF-5 (61)	BG-4 (7)	BI-5 (36)	BJ-4 (12)
Auburn 4-44.....(1925)	AE-8 (4)	AF-5 (21)	BD-11 (2)	BE-6 (2)	BF-6 (2)	BG-6 (2)	BI-6 (5)	BJ-6 (2)
Auburn 6-43, Col.....(1925)	AE-15 (2)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-4 (12)
Auburn 6-66, Col.....(1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-4 (12)
Auburn 8-88, Col.....(Early 1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-4 (12)
Auburn 8-88, Col.....(Late 1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-4 (12)
Auburn 4-44.....(1926-27)	AE-8 (4)	AF-5 (21)	BD-11 (2)	BE-6 (2)	BF-6 (2)	BG-6 (2)	BI-6 (5)	BJ-6 (2)
Auburn 6-66, Col.....(1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-7 (1)
Auburn 8-88, Col.....(Early 1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-8 (2)
Auburn 8-88, Col.....(Late 1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-8 (2)
Auburn 6-66A, Col.....(1927)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-9 (11)
Auburn 8-88, Col.....(1927-28)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-10 (1)
Auburn 8-77, Col.....(1927-28)	AE-5 (24)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-11 (1)
Auburn 76, Col.....(1928-29)	AE-6 (11)	AF-7 (11)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-5 (1)
Auburn 88, Col.....(1928-29)	AE-6 (11)	AF-7 (11)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-9 (3)	BI-9 (2)	BJ-13 (6)
Auburn 115, Col.....(1928-29)	AE-7 (5)	AF-8 (5)	BD-9 (2)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-14 (6)
Auburn 6-80, Col.....(1929)	AE-6 (11)	AF-7 (11)	BD-12 (1)	BE-1 (18)	BF-1 (18)	BG-10 (6)	BI-10 (2)	BJ-12 (10)
Auburn 8-90, Col.....(1929)	AE-6 (11)	AF-7 (11)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-9 (3)	BI-9 (2)	BJ-13 (6)
Auburn 120, Col.....(1929)	AE-7 (5)	AF-8 (5)	BD-9 (2)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-14 (6)
Blackhawk L 6.....(1929)	AE-10 (2)	AF-10 (2)	BD-6 (2)	BE-9 (2)	BF-9 (2)	BG-11 (2)	BI-11 (2)	BJ-16 (2)
Blackhawk L 8.....(1929)	AE-10 (2)	AF-10 (2)	BD-6 (2)	BE-9 (2)	BF-9 (2)	BG-11 (2)	BI-11 (2)	BJ-16 (2)
Buick Master.....(1925)	AE-11 (9)	AF-11 (9)	BD-7 (5)	BE-4 (46)	BF-4 (39)	BG-12 (15)	BI-12 (3)	BJ-17 (2)
Buick Std.....(1925)	AE-12 (7)	AF-12 (6)	BD-15 (5)	BE-10 (10)	BF-10 (19)	BG-13 (4)	BI-13 (1)	BJ-18 (1)
Buick Master.....(Early 1926)	AE-11 (9)	AF-11 (9)	BD-7 (5)	BE-4 (46)	BF-4 (39)	BG-12 (15)	BI-12 (3)	BJ-17 (2)
Buick Master.....(Late 1926)	AE-11 (9)	AF-11 (9)	BD-7 (5)	BE-4 (46)	BF-4 (39)	BG-12 (15)	BI-12 (3)	BJ-97 (1)
Buick Std.....(Early 1926)	AE-12 (7)	AF-12 (6)	BD-15 (5)	BE-10 (10)	BF-10 (19)	BG-13 (4)	BI-14 (5)	BJ-19 (1)
Buick Std.....(Late 1926)	AE-12 (7)	AF-12 (6)	BD-15 (5)	BE-10 (10)	BF-10 (19)	BG-13 (4)	BI-14 (5)	BJ-98 (1)
Buick 115.....(1927)	AE-12 (7)	AF-12 (6)	BD-15 (5)	BE-10 (10)	BF-10 (19)	BG-13 (4)	BI-14 (5)	BJ-20 (3)
Buick 120, 128.....(1927)	AE-11 (9)	AF-11 (9)	BD-7 (5)	BE-4 (46)	BF-4 (39)	BG-15 (6)	BI-15 (2)	BJ-21 (1)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

AXLES, Front and Rear—Continued

Car Make and Model	FRONT AXLE		REAR AXLE					
	Steering Knuckle Pivots (King Pins)	Steering Knuckle Pivot Bushings	Differential Case	Differential Spider or Cross Pin	Differential Spider Pinions	Differential Side Gears	Drive Pinion and Ring Gear	Axle Shafts
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Buick 115 (1928)	AE-12 (7)	AF-12 (6)	BD-15 (5)	BE-10 (10)	BF-10 (19)	BG-14 (1)	BI-14 (5)	BJ-20 (3)
Buick 120, 128 (1928)	AE-11 (9)	AF-11 (9)	BD-7 (5)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-15 (2)	BJ-22 (1)
Buick 116 (1929)	AE-12 (7)	AF-12 (6)	BD-16 (1)	BE-11 (1)	BF-11 (1)	BG-16 (1)	BI-14 (5)	BJ-20 (3)
Buick 121, 129 (1929)	AE-11 (9)	AF-11 (9)	BD-17 (1)	BE-12 (1)	BF-12 (1)	BG-17 (1)	BI-17 (1)	BJ-23 (1)
Cadillac V-63 (1925)	AE-13 (7)	AF-13 (7)	BD-8 (1)	BE-4 (46)	BF-4 (39)	BG-18 (5)	BI-18 (1)	BJ-24 (6)
Cadillac 314 (1926)	AE-14 (4)	AF-14 (4)	BD-18 (2)	BE-4 (46)	BF-4 (39)	BG-18 (5)	BI-19 (2)	BJ-25 (2)
Cadillac 314 (1927)	AE-14 (4)	AF-14 (4)	BD-18 (2)	BE-4 (46)	BF-4 (39)	BG-18 (5)	BI-19 (2)	BJ-25 (2)
Cadillac 341A (1928)	AE-14 (4)	AF-14 (4)	BD-19 (1)	BE-4 (46)	BF-4 (39)	BG-18 (5)	BI-20 (2)	BJ-26 (1)
Cadillac 341B (1929)	AE-14 (4)	AF-14 (4)	BD-85 (1)	BE-4 (46)	BF-4 (39)	BG-18 (5)	BI-20 (2)	BJ-27 (1)
Case JIC, Col. (1925)	AE-4 (69)	AF-4 (67)	BD-20 (8)	BE-5 (57)	BF-5 (61)	BG-19 (12)	BI-21 (5)	BJ-28 (5)
Case X, Col. (1925)	AE-15 (2)	AF-4 (67)	BD-21 (1)	BE-5 (57)	BF-5 (61)	BG-19 (12)	BI-22 (4)	BJ-28 (5)
Case Y, Col. (1925)	AE-16 (2)	AF-15 (2)	BD-22 (2)	BE-4 (46)	BF-4 (39)	BG-20 (2)	BI-22 (4)	BJ-29 (2)
Case JIC, Col. (1926-27)	AE-4 (69)	AF-4 (67)	BD-20 (8)	BE-5 (57)	BF-5 (61)	BG-19 (12)	BI-21 (5)	BJ-28 (5)
Case Y, Col. (1926-27)	AE-16 (2)	AF-15 (2)	BD-22 (2)	BE-4 (46)	BF-4 (39)	BG-20 (2)	BI-22 (4)	BJ-29 (2)
Chandler 33 (1925)	AE-17 (6)	AF-16 (6)	BD-23 (2)	BE-5 (57)	BF-5 (61)	BG-21 (6)	BI-24 (6)	BJ-30 (6)
Chandler 35 (1926)	AE-17 (6)	AF-16 (6)	BD-23 (2)	BE-5 (57)	BF-5 (61)	BG-21 (6)	BI-24 (6)	BJ-30 (6)
Chandler Big 6 (1927)	AE-17 (6)	AF-16 (6)	BD-24 (2)	BE-5 (57)	BF-5 (61)	BG-21 (6)	BI-24 (6)	BJ-30 (6)
Chandler Royal 8 (1927)	AE-17 (6)	AF-16 (6)	BD-25 (2)	BE-5 (57)	BF-5 (61)	BG-21 (6)	BI-24 (6)	BJ-30 (6)
Chandler Spec. 6 (1927)	AE-18 (3)	AF-17 (3)	BD-26 (6)	BE-13 (3)	BF-10 (19)	BG-22 (3)	BI-25 (3)	BJ-31 (4)
Chandler Big 6 (1928)	AE-17 (6)	AF-16 (6)	BD-24 (2)	BE-5 (57)	BF-5 (61)	BG-21 (6)	BI-24 (6)	BJ-30 (6)
Chandler Royal 8 (1928)	AE-17 (6)	AF-16 (6)	BD-25 (2)	BE-5 (57)	BF-5 (61)	BG-21 (6)	BI-24 (6)	BJ-30 (6)
Chandler Spec. 6 (1928)	AE-19 (2)	AF-18 (2)	BD-26 (6)	BE-14 (3)	BF-13 (3)	BG-23 (3)	BI-26 (3)	BJ-31 (4)
Chandler Spec. In. 6 (1928)	AE-19 (2)	AF-18 (2)	BD-26 (6)	BE-14 (3)	BF-13 (3)	BG-23 (3)	BI-26 (3)	BJ-32 (2)
Chevrolet K (1925)	AE-21 (4)	AF-20 (4)	BD-27 (7)	BE-15 (5)	BF-15 (8)	BG-24 (8)	BI-27 (4)	BJ-33 (8)
Chevrolet V (1926)	AE-21 (4)	AF-20 (4)	BD-27 (7)	BE-15 (5)	BF-15 (8)	BG-24 (8)	BI-27 (4)	BJ-33 (8)
Chevrolet AA (1927)	AE-21 (4)	AF-20 (4)	BD-27 (7)	BE-15 (5)	BF-15 (8)	BG-24 (8)	BI-27 (4)	BJ-33 (8)
Chevrolet AB (1928)	AE-22 (4)	AF-21 (6)	BD-27 (7)	BE-15 (5)	BF-15 (8)	BG-24 (8)	BI-27 (4)	BJ-33 (8)
Chevrolet AC (1929)	AE-12 (7)	AF-21 (6)	BD-28 (1)	BE-15 (5)	BF-15 (8)	BG-24 (8)	BI-28 (1)	BJ-33 (8)
Chrysler 6B (1925)	AE-23 (3)	AF-22 (1)	BD-29 (1)	BE-16 (5)	BF-16 (11)	BG-25 (11)	BI-29 (1)	BJ-35 (2)
Chrysler 58 (1925)	AE-25 (1)	AF-112 (1)	BD-30 (2)	BE-17 (2)	BF-17 (2)	BG-130 (1)	BI-30 (1)	BJ-36 (5)
Chrysler 58 (1926)	AE-24 (8)	AF-23 (12)	BD-31 (2)	BE-18 (2)	BF-16 (11)	BG-25 (11)	BI-31 (2)	BJ-36 (5)
Chrysler 60 (1926)	AE-24 (8)	AF-23 (12)	BD-31 (2)	BE-18 (2)	BF-16 (11)	BG-25 (11)	BI-31 (2)	BJ-99 (1)
Chrysler 70 (1926)	AE-24 (8)	AF-23 (12)	BD-32 (4)	BE-16 (5)	BF-16 (11)	BG-25 (11)	BI-32 (6)	BJ-35 (2)
Chrysler 80 (1926)	AE-27 (4)	AF-24 (4)	BD-33 (2)	BE-19 (4)	BF-18 (2)	BG-26 (2)	BI-34 (4)	BJ-36 (5)
Chrysler 50 (1927)	AE-23 (3)	AF-5 (21)	BD-34 (1)	BE-20 (2)	BF-8 (66)	BG-27 (2)	BI-33 (3)	BJ-37 (2)
Chrysler 60 (1927)	AE-24 (8)	AF-23 (12)	BD-32 (4)	BE-16 (5)	BF-16 (11)	BG-25 (11)	BI-32 (6)	BJ-38 (2)
Chrysler 62 (1927)	AE-24 (8)	AF-23 (12)	BD-32 (4)	BE-16 (5)	BF-16 (11)	BG-25 (11)	BI-32 (6)	BJ-139 (1)
Chrysler 70 (1927)	AE-24 (8)	AF-23 (12)	BD-32 (4)	BE-16 (5)	BF-16 (11)	BG-25 (11)	BI-32 (6)	BJ-38 (2)
Chrysler 80 (1927)	AE-27 (4)	AF-24 (4)	BD-33 (2)	BE-19 (4)	BF-18 (2)	BG-26 (2)	BI-34 (4)	BJ-36 (5)
Chrysler 52 (1928)	AE-23 (3)	AF-5 (21)	BD-35 (1)	BE-20 (2)	BF-8 (66)	BG-27 (2)	BI-33 (3)	BJ-37 (2)
Chrysler 62 (1928)	AE-24 (8)	AF-23 (12)	BD-36 (4)	BE-21 (4)	BF-16 (11)	BG-25 (11)	BI-34 (4)	BJ-39 (2)
Chrysler 72 (1928)	AE-24 (8)	AF-23 (12)	BD-36 (4)	BE-21 (4)	BF-16 (11)	BG-25 (11)	BI-34 (4)	BJ-39 (2)
Chrysler Imp. 80 (1928)	AE-27 (4)	AF-24 (4)	BD-37 (1)	BE-19 (4)	BF-14 (2)	BG-28 (2)	BI-35 (2)	BJ-40 (2)
Chrysler 65 (1929)	AE-26 (2)	AF-23 (12)	BD-36 (4)	BE-21 (4)	BF-16 (11)	BG-25 (11)	BI-32 (6)	BJ-41 (2)
Chrysler 75 (1929)	AE-26 (2)	AF-23 (12)	BD-36 (4)	BE-21 (4)	BF-16 (11)	BG-25 (11)	BI-32 (6)	BJ-41 (2)
Chrysler Imp. 80 (1929)	AE-27 (4)	AF-24 (4)	BD-38 (1)	BE-19 (4)	BF-14 (2)	BG-28 (2)	BI-35 (2)	BJ-40 (2)
Cleveland 31 (1925)	AE-20 (2)	AF-19 (2)	BD-39 (1)	BE-23 (1)	BF-19 (1)	BG-29 (1)	BI-36 (1)	BJ-42 (1)
Cleveland 43 (1925)	AE-18 (3)	AF-17 (3)	BD-26 (6)	BE-13 (3)	BF-10 (19)	BG-22 (3)	BI-25 (3)	BJ-31 (4)
Cleveland 31 (1926)	AE-20 (2)	AF-19 (2)	BD-26 (6)	BE-14 (3)	BF-13 (3)	BG-23 (3)	BI-26 (3)	BJ-32 (2)
Cleveland 43 (1926)	AE-18 (3)	AF-17 (3)	BD-26 (6)	BE-13 (3)	BF-10 (19)	BG-22 (3)	BI-25 (3)	BJ-31 (4)
Cole Master (1925)	AE-119 (3)	AF-99 (1)	BD-20 (8)	BE-5 (57)	BF-5 (61)	BG-30 (1)	BI-37 (1)	BJ-43 (1)
Davis 92, Col. (1925)	AE-29 (7)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-50 (1)
Davis 90 (1925-26)	AE-29 (7)	AF-26 (2)	BD-53 (2)	BE-28 (2)	BF-26 (2)	BG-33 (2)	BI-40 (2)	BJ-49 (6)
Davis 91 (1925-26)	AE-29 (7)	AF-26 (2)	BD-53 (2)	BE-28 (2)	BF-26 (2)	BG-33 (2)	BI-40 (2)	BJ-49 (6)
Davis 92, Col. (1926)	AE-29 (7)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-54 (3)
Davis 93, Col. (1926)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-54 (3)
Davis 93, Col. (1927)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-51 (5)
Davis 92, Col. (1927)	AE-4 (69)	AF-4 (67)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-54 (3)
Davis 94, Col. (1927)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-51 (5)
Davis 98, Col. (1927)	AE-4 (69)	AF-4 (67)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-41 (1)	BJ-53 (2)
Davis 99, Col. (1928)	AE-4 (69)	AF-4 (67)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-42 (1)	BJ-53 (2)
De Soto (1929-30)	AE-30 (2)	AF-5 (21)	BD-56 (2)	BE-30 (1)	BF-118 (1)	BG-62 (1)	BI-33 (3)	BJ-55 (2)
Diana Str. 8, Col. (1925)	AE-29 (7)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-56 (2)
Diana Str. 8, Col. (1926)	AE-29 (7)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-56 (2)
Diana Str. 8, Col. (1927)	AE-29 (7)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-57 (2)
Diana Str. 8, Col. (1928)	AE-31 (1)	AF-27 (1)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-57 (2)
Dodge Brothers 4 (1925)	AE-32 (2)	AF-28 (4)	BD-57 (4)	BE-31 (4)	BF-27 (4)	BG-34 (4)	BI-43 (4)	BJ-58 (5)
Dodge Brothers 4 (Early 1926)	AE-32 (2)	AF-28 (4)	BD-57 (4)	BE-31 (4)	BF-27 (4)	BG-34 (4)	BI-43 (4)	BJ-58 (5)
Dodge Brothers 4 (Late 1926)	AE-33 (2)	AF-28 (4)	BD-57 (4)	BE-31 (4)	BF-27 (4)	BG-34 (4)	BI-43 (4)	BJ-58 (5)
Dodge Brothers 4 (1927)	AE-33 (2)	AF-28 (4)	BD-57 (4)	BE-31 (4)	BF-27 (4)	BG-34 (4)	BI-43 (4)	BJ-58 (5)
Dodge 128 (Early 1928)	AE-36 (1)	AF-29 (5)	BD-58 (1)	BE-32 (1)	BF-28 (1)	BG-35 (1)	BI-44 (1)	BJ-59 (4)
Dodge Brothers Senior (Late 1928)	AE-34 (2)	AF-23 (12)	BD-59 (6)	BE-33 (6)	BF-29 (6)	BG-36 (6)	BI-45 (5)	BJ-58 (5)
Dodge 128 (Late 1928)	AE-35 (3)	AF-29 (5)	BD-59 (6)	BE-33 (6)	BF-29 (6)	BG-36 (6)	BI-46 (1)	BJ-59 (4)
Dodge Brothers Std.6 (1928)	AE-35 (3)	AF-29 (5)	BD-59 (6)	BE-33 (6)	BF-29 (6)	BG-36 (6)	BI-45 (5)	BJ-59 (4)
Dodge Brothers Victory 6 (1928-29)	AE-35 (3)	AF-29 (5)	BD-59 (6)	BE-33 (6)	BF-29 (6)	BG-36 (6)	BI-45 (5)	BJ-59 (4)
Dodge Brothers Senior (1929)	AE-34 (2)	AF-23 (12)	BD-59 (6)	BE-33 (6)	BF-29 (6)	BG-36 (6)	BI-45 (5)	BJ-60 (1)
Dodge Brothers DA6 (1929)	AE-37 (1)	AF-29 (5)	BD-59 (6)	BE-33 (6)	BF-29 (6)	BG-36 (6)	BI-45 (5)	BJ-61 (1)
Dorris (1925)	AE-28 (5)	AF-25 (5)	BD-60 (1)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-38 (10)	BJ-62 (1)
du Pont D, Eat. Fr. (1925)	AE-71 (12)	AF-62 (28)	BD-20 (8)	BE-5 (57)	BF-5 (61)	BG-38 (1)	BI-49 (1)	BJ-64 (8)
du Pont D, Col. (1926)	AE-71 (12)	AF-62 (28)	BD-13 (1)	BE-29 (1)	BF-24 (1)	BG-39 (1)	BI-50 (2)	BJ-64 (8)
du Pont E, Col. (1926)	AE-4 (69)	AF-4 (67)	BD-63 (2)	BE-4 (46)	BF-7 (78)	BG-19 (12)	BI-52 (2)	BJ-64 (8)
du Pont E, Col. (1927)	AE-40 (1)	AF-122 (1)	BD-63 (2)	BE-4 (46)	BF-7 (78)	BG-19 (12)	BI-52 (2)	BJ-64 (8)
du Pont G, Col. (1927)	AE-4 (69)	AF-4 (67)	BD-64 (6)	BE-4 (46)	BF-7 (78)	BG-19 (12)	BI-53 (1)	BJ-65 (2)
du Pont D, Col. (1928)	AE-4 (69)	AF-4 (67)	BD-64 (6)	BE-4 (46)	BF-7 (78)	BG-40 (4)	BI-50 (2)	BJ-64 (8)
du Pont E, F, Col. (1928)	AE-4 (69)	AF-4 (67)	BD-64 (6)	BE-4 (46)	BF-7 (78)	BG-40 (4)	BI-55 (1)	BJ-64 (8)
du Pont E, Col. (1929)	AE-100 (1)	AF-123 (1)	BD-64 (6)	BE-4 (46)	BF-7 (78)	BG-40 (4)	BI-56 (1)	BJ-64 (8)
du Pont G, Col. (1929)	AE-4 (69)	AF-4 (67)	BD-64 (6)	BE-4 (46)	BF-7 (78)	BG-40 (4)	BI-57 (1)	BJ-65 (2)
Durant A, 22 (1925)	AE-39 (4)	AF-31 (14)	BD-65 (2)	BE-36 (5)	BF-31 (6)	BG-41 (5)	BI-58 (1)	BJ-66 (1)
Durant D, 55 (1928)	AE-41 (10)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-59 (4)	BJ-67 (5)
Durant M2, M4 (1928)	AE-41 (10)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-59 (4)	BJ-67 (5)
Durant D, 65 (1928)	AE-41 (10)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-59 (4)	BJ-67 (5)
Durant 75 (1928-29)	AE-118 (6)	AF-98 (2)	BD-65 (2)	BE-36 (6)	BF-31 (6)	BG-41 (6)	BI-60 (1)	BJ-68 (1)
Durant 4-40 (1929)	AE-41 (10)	AF-31 (14)	BD-66 (1)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-59 (4)	BJ-69 (1)
Durant 6-60 (1929)	AE-41 (10)	AF-31 (14)	BD-67 (1)	BE-37 (1)	BF-32 (1)	BG-42 (1)	BI-61 (1)	BJ-67 (5)
Durant 66 (1929)	AE-41 (10)	AF-31 (14)	BD-68 (1)	BE-38 (1)	BF-33 (1)	BG-43 (1)	BI-62 (1)	BJ-70 (1)
Durant 70 (1929)	AE-118 (5)	AF-98 (2)	BD-69 (1)	BE-39 (1)	BF-31 (6)	BG-44 (1)	BI-63 (1)	BJ-67 (5)
Elcar 4-40 (1925)	AE-42 (2)	AF-32 (2)	BD-70 (4)	BE-5 (57)	BF-5 (61)	BG-45 (5)	BI-2 (7)	BJ-2 (4)
Elcar 6-50 (1925)	AE-43 (1)	AF-33 (1)	BD-70 (4)	BE-5 (57)	BF-5 (61)	BG-45 (5)	BI-2 (7)	BJ-72 (1)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column

Digitized by Google

AXLES, Front and Rear—Continued

Car Make and Model	FRONT AXLE		REAR AXLE					
	Steering Knuckle Pivots (King Pins)	Steering Knuckle Pivot Bushings	Differential Case	Differential Spider or Cross Pin	Differential Spider Pinions	Differential Side Gears	Drive Pinion and Ring Gear	Axle Shafts
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Elcar 6-60 (1925)	AE-44 (5)	AF-34 (3)	BD-71 (3)	BE-5 (67)	BF-5 (61)	BG-45 (5)	BI-64 (1)	BJ-73 (1)
Elcar 8-80 (1925)	AE-45 (4)	AF-35 (4)	BD-2 (3)	BE-5 (67)	BF-5 (61)	BG-46 (4)	BI-65 (1)	BJ-3 (3)
Elcar 6-65 (1926)	AE-44 (5)	AF-34 (3)	BD-70 (4)	BE-5 (67)	BF-5 (61)	BG-45 (5)	BI-2 (7)	BJ-2 (4)
Elcar 8-81 (1926)	AE-45 (4)	AF-35 (4)	BD-2 (3)	BE-5 (67)	BF-5 (61)	BG-46 (4)	BI-66 (1)	BJ-3 (3)
Elcar 4-55 (1926-27)	AE-42 (2)	AF-32 (2)	BD-70 (4)	BE-5 (67)	BF-5 (61)	BG-45 (5)	BI-2 (7)	BJ-2 (4)
Elcar 6-70 (1927)	AE-46 (2)	AF-36 (2)	BD-71 (3)	BE-127 (2)	BF-35 (2)	BG-47 (2)	BI-67 (2)	BJ-74 (2)
Elcar 8-82 (1927)	AE-45 (4)	AF-35 (4)	BD-72 (2)	BE-128 (2)	BF-36 (2)	BG-48 (2)	BI-68 (2)	BJ-75 (4)
Elcar 8-90 (1927)	AE-47 (3)	AF-37 (3)	BD-73 (1)	BE-129 (1)	BF-37 (1)	BG-49 (1)	BI-69 (1)	BJ-76 (1)
Elcar 8-91 (1928)	AE-47 (3)	AF-37 (3)	BD-194 (1)	BE-53 (1)	BF-39 (1)	BG-51 (1)	BI-70 (2)	BJ-78 (1)
Elcar 120 (1928)	AE-49 (1)	AF-39 (1)	BD-195 (1)	BE-59 (1)	BF-40 (1)	BG-52 (1)	BI-71 (1)	BJ-79 (1)
Elcar 6-70 (1928-29)	AE-46 (2)	AF-36 (2)	BD-71 (3)	BE-127 (2)	BF-35 (2)	BG-47 (2)	BI-67 (2)	BJ-74 (2)
Elcar 8-78 (1928-29)	AE-48 (1)	AF-38 (1)	BD-193 (1)	BE-130 (1)	BF-38 (1)	BG-50 (1)	BI-70 (2)	BJ-77 (1)
Elcar 8-82 (1928-29)	AE-45 (4)	AF-35 (4)	BD-72 (2)	BE-128 (2)	BF-36 (2)	BG-48 (2)	BI-68 (2)	BJ-75 (4)
Elcar 75 (1929-30)	AE-50 (1)	AF-40 (1)	BD-196 (1)	BE-40 (1)	BF-41 (1)	BG-53 (1)	BI-72 (1)	BJ-80 (1)
Elcar 95, 96 (1929-30)	AE-51 (1)	AF-41 (1)	BD-74 (1)	BE-41 (1)	BF-42 (1)	BG-54 (1)	BI-73 (1)	BJ-81 (1)
Elcar 120 (1929-30)	AE-47 (3)	AF-37 (3)	BD-75 (1)	BE-42 (1)	BF-43 (1)	BG-55 (1)	BI-74 (1)	BJ-82 (1)
Erskine 50 (1927)	AE-52 (3)	AF-42 (3)	BD-76 (3)	BE-43 (6)	BF-8 (56)	BG-8 (60)	BI-75 (3)	BJ-83 (3)
Erskine 6-51 (1928)	AE-52 (3)	AF-42 (3)	BD-76 (3)	BE-43 (6)	BF-8 (56)	BG-8 (60)	BI-75 (3)	BJ-83 (3)
Erskine 52 (1929)	AE-52 (3)	AF-42 (3)	BD-76 (3)	BE-43 (6)	BF-8 (56)	BG-8 (60)	BI-75 (3)	BJ-83 (3)
Essex 6 (1925)	AE-53 (2)	AF-43 (3)	BD-77 (3)	BE-44 (6)	BF-5 (61)	BG-56 (5)	BI-76 (6)	BJ-84 (5)
Essex 6 (1926)	AE-53 (2)	AF-43 (3)	BD-77 (3)	BE-44 (6)	BF-5 (61)	BG-56 (5)	BI-76 (6)	BJ-84 (5)
*Essex Super Six (1927)	AE-54 (3)	AF-44 (3)	BD-77 (3)	BE-44 (6)	BF-5 (61)	BG-56 (5)	BI-76 (6)	BJ-84 (5)
Essex Super Six (1928)	AE-54 (3)	AF-44 (3)	BD-78 (2)	BE-44 (6)	BF-5 (61)	BG-56 (5)	BI-76 (6)	BJ-84 (5)
Essex Challenger (1929)	AE-54 (3)	AF-44 (3)	BD-78 (2)	BE-44 (6)	BF-5 (61)	BG-56 (5)	BI-76 (6)	BJ-84 (5)
Falcon Knight 10 (1927-28)	AE-55 (7)	None	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-77 (5)	BJ-85 (7)
Falcon Knight 12 (1928-29)	AE-55 (7)	None	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-77 (5)	BJ-86 (2)
Flint, Jr. (1925)	AE-39 (4)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-78 (8)	BJ-87 (1)
Flint B40 (1925-26)	AE-56 (6)	AF-45 (6)	BD-79 (1)	BE-36 (6)	BF-31 (6)	BG-41 (5)	BI-79 (3)	BJ-88 (1)
Flint E55 (1925)	AE-57 (1)	AF-46 (3)	BD-80 (3)	BE-45 (1)	BF-44 (3)	BG-57 (3)	BI-80 (3)	BJ-89 (1)
Flint 60 (1926)	AE-56 (6)	AF-45 (6)	BD-81 (2)	BE-36 (6)	BF-31 (6)	BG-41 (5)	BI-79 (3)	BJ-90 (2)
Flint 80 (1926)	AE-58 (2)	AF-46 (3)	BD-80 (3)	BE-46 (2)	BF-44 (3)	BG-57 (3)	BI-80 (3)	BJ-91 (2)
Flint, Jr. (1926)	AE-39 (4)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-78 (8)	BJ-92 (2)
Flint, Jr. (1927)	AE-39 (4)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-78 (8)	BJ-92 (2)
Flint 60 (1927-28)	AE-56 (6)	AF-45 (6)	BD-81 (2)	BE-36 (6)	BF-31 (6)	BG-41 (5)	BI-79 (3)	BJ-90 (2)
Flint 80 (1927-28)	AE-58 (2)	AF-46 (3)	BD-80 (3)	BE-46 (2)	BF-44 (3)	BG-57 (3)	BI-80 (3)	BJ-91 (2)
Ford T. (1925)	AE-59 (3)	AF-47 (3)	BD-82 (3)	BE-47 (3)	BF-45 (3)	BG-58 (3)	BI-81 (3)	BJ-93 (3)
Ford T. (1926)	AE-59 (3)	AF-47 (3)	BD-82 (3)	BE-47 (3)	BF-45 (3)	BG-58 (3)	BI-81 (3)	BJ-93 (3)
Ford T. (1927)	AE-59 (3)	AF-47 (3)	BD-82 (3)	BE-47 (3)	BF-45 (3)	BG-58 (3)	BI-81 (3)	BJ-93 (3)
Ford A. (1928)	AE-60 (2)	AF-48 (2)	BD-83 (2)	BE-48 (2)	BF-46 (2)	BG-59 (2)	BI-82 (2)	BJ-94 (2)
Ford A. (1929)	AE-60 (2)	AF-48 (2)	BD-83 (2)	BE-48 (2)	BF-46 (2)	BG-59 (2)	BI-82 (2)	BJ-94 (2)
Franklin 11 (1925)	AE-61 (4)	AF-49 (4)	BD-84 (4)	BE-49 (4)	BF-47 (3)	BG-60 (4)	BI-83 (4)	BJ-95 (4)
Franklin 11 (1926)	AE-61 (4)	AF-49 (4)	BD-84 (4)	BE-49 (4)	BF-47 (3)	BG-60 (4)	BI-83 (4)	BJ-95 (4)
Franklin 11B (1927)	AE-61 (4)	AF-49 (4)	BD-84 (4)	BE-49 (4)	BF-47 (3)	BG-60 (4)	BI-83 (4)	BJ-95 (4)
Franklin Ser. 12 (1927-28)	AE-61 (4)	AF-49 (4)	BD-84 (4)	BE-49 (4)	BF-48 (3)	BG-60 (4)	BI-83 (4)	BJ-95 (4)
Franklin 130 (1929)	AE-62 (2)	AF-50 (2)	BD-86 (2)	BE-50 (2)	BF-48 (3)	BG-61 (2)	BI-84 (2)	BJ-96 (2)
Franklin 135, 137 (1929)	AE-62 (2)	AF-50 (2)	BD-86 (2)	BE-50 (2)	BF-48 (3)	BG-61 (2)	BI-84 (2)	BJ-96 (2)
Gardner 6A Col. (1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-49 (6)
Gardner 8A Col. (1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-4 (12)
Gardner Series 5 (1925)	AE-63 (1)	AF-51 (1)	BD-88 (1)	BE-52 (1)	BF-50 (1)	BG-63 (1)	BI-86 (1)	BJ-100 (1)
Gardner 6B Col. (Early 1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-49 (6)
Gardner 6B Col. (Late 1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-49 (6)
Gardner 8B Col. (1926-27)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-4 (12)
Gardner 75 Col. (1927)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-9 (11)
Gardner 80 Col. (1927)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-9 (11)
Gardner 85 Col. (1927)	AE-6 (11)	AF-124 (1)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-101 (1)
Gardner 90 Col. (Early 1927)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-14 (6)
Gardner 90 Col. (Late 1927)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-14 (6)
Gardner 75 Col. (1928)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-12 (10)
Gardner 85 Col. (1928)	AE-6 (11)	AF-7 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-13 (6)
Gardner 95 Col. (1928)	AE-7 (5)	AF-8 (5)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-14 (6)
Gardner 85 Col. (1929)	AE-6 (11)	AF-7 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-13 (6)
Gardner 120 Col. (1929)	AE-6 (11)	AF-7 (11)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-10 (6)	BI-7 (19)	BJ-13 (6)
Gardner 125 Col. (1929)	AE-6 (11)	AF-7 (11)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-7 (19)	BJ-13 (6)
Gardner 130 Col. (1929)	AE-7 (5)	AF-8 (5)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-14 (6)
Graham Paige 610 (1928-29)	AE-44 (5)	AF-6 (29)	BD-89 (2)	BE-7 (48)	BF-8 (56)	BG-64 (2)	BI-87 (2)	BJ-103 (2)
Graham Paige 614 (1928-29)	AE-44 (5)	AF-6 (29)	BD-90 (1)	BE-10 (10)	BF-10 (19)	BG-65 (2)	BI-88 (2)	BJ-104 (3)
Graham Paige 619 (1928-29)	AE-64 (3)	AF-53 (3)	BD-91 (6)	BE-4 (46)	BF-4 (39)	BG-66 (6)	BI-89 (6)	BJ-105 (2)
Graham Paige 629 (1928-29)	AE-64 (3)	AF-53 (3)	BD-91 (6)	BE-4 (46)	BF-4 (39)	BG-66 (6)	BI-89 (6)	BJ-105 (2)
Graham Paige 835 (1928-29)	AE-64 (3)	AF-53 (3)	BD-91 (6)	BE-4 (46)	BF-4 (39)	BG-66 (6)	BI-89 (6)	BJ-106 (1)
Graham Paige 612 (1929)	AE-65 (1)	AF-54 (1)	BD-89 (2)	BE-7 (48)	BF-8 (56)	BG-64 (2)	BI-87 (2)	BJ-107 (1)
Graham Paige 615 (1929)	AE-44 (5)	AF-6 (29)	BD-93 (1)	BE-10 (10)	BF-10 (19)	BG-65 (2)	BI-88 (2)	BJ-108 (1)
Graham Paige 621 (1929)	AE-66 (3)	AF-55 (5)	BD-91 (6)	BE-4 (46)	BF-4 (39)	BG-66 (6)	BI-89 (6)	BJ-109 (1)
Graham Paige 827 (1929)	AE-66 (3)	AF-55 (5)	BD-91 (6)	BE-4 (46)	BF-4 (39)	BG-66 (6)	BI-89 (6)	BJ-110 (1)
Graham Paige 837 (1929)	AE-66 (3)	AF-55 (5)	BD-91 (6)	BE-4 (46)	BF-4 (39)	BG-66 (6)	BI-89 (6)	BJ-111 (1)
Haynes 60 (1925)	AE-68 (1)	AF-56 (1)	BD-96 (1)	BE-4 (46)	BF-4 (39)	BG-132 (2)	BI-91 (1)	BJ-113 (1)
Hudson Super 6 (1925)	AE-69 (2)	AF-57 (2)	BD-97 (5)	BE-5 (67)	BF-5 (61)	BG-68 (14)	BI-92 (5)	BJ-114 (5)
Hudson Super 6 (1926)	AE-69 (2)	AF-57 (2)	BD-97 (5)	BE-5 (67)	BF-5 (61)	BG-68 (14)	BI-92 (5)	BJ-114 (5)
Hudson Super 6 (1927)	AE-70 (4)	AF-58 (4)	BD-97 (5)	BE-5 (67)	BF-5 (61)	BG-68 (14)	BI-92 (5)	BJ-114 (5)
Hudson Super 6 O. (1928)	AE-70 (4)	AF-58 (4)	BD-97 (5)	BE-5 (67)	BF-5 (61)	BG-68 (14)	BI-92 (5)	BJ-114 (5)
Hudson Super 6 S. (1928)	AE-70 (4)	AF-58 (4)	BD-97 (5)	BE-5 (67)	BF-5 (61)	BG-68 (14)	BI-92 (5)	BJ-114 (5)
Hudson Greater 6. (1929)	AE-70 (4)	AF-58 (4)	BD-98 (1)	BE-5 (67)	BF-5 (61)	BG-68 (14)	BI-93 (1)	BJ-115 (1)
Hupmobile Ser. R. (1925)	AE-73 (1)	AF-60 (1)	BD-100 (1)	BE-55 (1)	BF-52 (1)	BG-70 (4)	BI-95 (1)	BJ-116 (2)
Hupmobile E. 1 (1925-26)	AE-72 (3)	AF-59 (3)	BD-99 (1)	BE-54 (1)	BF-51 (1)	BG-69 (3)	BI-94 (1)	BJ-116 (2)
Hupmobile A. 1 (1926)	AE-74 (5)	AF-61 (7)	BD-102 (4)	BE-57 (3)	BF-54 (4)	BG-72 (5)	BI-97 (4)	BJ-118 (2)
Hupmobile E. 2 (1926-27)	AE-72 (3)	AF-59 (3)	BD-101 (3)	BE-56 (5)	BF-53 (5)	BG-71 (6)	BI-96 (5)	BJ-117 (4)
Hupmobile A. 2 (1927)	AE-74 (5)	AF-61 (7)	BD-102 (4)	BE-57 (3)	BF-54 (4)	BG-72 (5)	BI-97 (4)	BJ-118 (2)
Hupmobile E. 3 (1927-28)	AE-72 (3)	AF-59 (3)	BD-101 (3)	BE-56 (5)	BF-53 (5)	BG-71 (6)	BI-96 (5)	BJ-117 (4)
Hupmobile Cent. 6 (1928)	AE-74 (5)	AF-61 (7)	BD-102 (4)	BE-57 (3)	BF-54 (4)	BG-72 (5)	BI-97 (4)	BJ-119 (1)
Hupmobile Cent. 8 (1928)	AE-75 (2)	AF-61 (7)	BD-103 (2)	BE-56 (5)	BF-53 (5)	BG-71 (6)	BI-96 (5)	BJ-117 (4)
Hupmobile 125 (1928)	AE-75 (2)	AF-61 (7)	BD-101 (3)	BE-56 (5)	BF-53 (5)	BG-71 (6)	BI-96 (5)	BJ-117 (4)
Hupmobile M. 8 (1928-29)	AE-76 (1)	AF-61 (7)	BD-103 (2)	BE-56 (5)	BF-53 (5)	BG-71 (6)	BI-96 (5)	BJ-121 (1)
Hupmobile Century 6 (1929)	AE-74 (5)	AF-61 (7)	BD-102 (4)	BE-58 (1)	BF-54 (4)	BG-72 (5)	BI-97 (4)	BJ-120 (1)
Jewett 6-50 (1925)	AE-77 (4)	AF-52 (11)	BD-104 (1)	BE-131 (1)	BF-55 (1)	BG-73 (4)	BI-98 (1)	BJ-46 (1)
Jewett 6-55 (1926)	AE-8 (4)	AF-5 (21)	BD-105 (2)	BE-60 (2)	BF-56 (2)	BG-74 (3)	BI-6 (5)	BJ-122 (2)
Jordan K., L. (1925)	AE-78 (16)	AF-62 (28)	BD-106 (1)	BE-61 (4)	BF-57 (6)	BG-75 (5)	BI-99 (1)	BJ-123 (1)
Jordan A. (1925)	AE-78 (16)	AF-62 (28)	BD-107 (3)	BE-61 (4)	BF-57 (6)	BG-75 (5)	BI-100 (3)	BJ-124 (5)
Jordan A. (1926)	AE-78 (16)	AF-62 (28)	BD-107 (3)	BE-61 (4)	BF-57 (6)	BG-75 (5)	BI-100 (3)	BJ-124 (5)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

AXLES, Front and Rear—Continued

Car Make and Model	FRONT AXLE		REAR AXLE					
	Steering Knuckle Pivots (King Pins)	Steering Knuckle Pivot Bushings	Differential Case	Differential Spider or Cross Pin	Differential Spider Pinions	Differential Side Gears	Drive Pinion and Ring Gear	Axle Shafts
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Jordan J.....(1926)	AE-79 (4)	AF-5 (21)	BD-108 (5)	BE-8 (76)	BF-58 (6)	BG-76 (9)	BI-101 (5)	BJ-125 (5)
Jordan J.....(1927)	AE-79 (4)	AF-5 (21)	BD-108 (5)	BE-8 (76)	BF-58 (6)	BG-76 (9)	BI-101 (5)	BJ-125 (6)
Jordan A. A.....(1927-28)	AE-78 (16)	AF-62 (28)	BD-107 (3)	BE-61 (4)	BF-57 (6)	BG-75 (5)	BI-100 (3)	BJ-124 (6)
Jordan R. Col.....(1927-28)	AE-80 (4)	AF-63 (3)	BD-109 (6)	BE-63 (2)	BF-59 (2)	BG-77 (5)	BI-102 (10)	BJ-126 (2)
Jordan J. J.....(1928)	AE-79 (4)	AF-5 (21)	BD-108 (5)	BE-8 (76)	BF-58 (6)	BG-76 (9)	BI-101 (5)	BJ-125 (6)
Jordan J. E.....(1928)	AE-79 (4)	AF-5 (21)	BD-108 (5)	BE-8 (76)	BF-58 (6)	BG-76 (9)	BJ-101 (6)	BJ-125 (6)
Jordan R. E.....(1928-29)	AE-80 (4)	AF-63 (3)	BD-109 (6)	BE-63 (2)	BF-59 (2)	BG-77 (5)	BI-10 (2)	BJ-126 (2)
Jordan E. Col.....(1929)	AE-5 (24)	AF-6 (29)	BD-110 (1)	BE-64 (1)	BF-60 (1)	BG-78 (2)	BI-103 (5)	BJ-127 (1)
Jordan G. Col.....(1929)	AE-7 (5)	AF-8 (5)	BD-108 (5)	BE-8 (76)	BF-58 (6)	BG-76 (9)	BI-101 (5)	BJ-125 (6)
Kissel 6-55.....(1925)	AE-78 (16)	AF-62 (28)	BD-109 (6)	BE-65 (5)	BF-61 (6)	BG-79 (6)	BI-102 (10)	BJ-128 (27)
Kissel 8-75.....(1925)	AE-78 (16)	AF-62 (28)	BD-109 (6)	BE-65 (5)	BF-61 (6)	BG-79 (6)	BI-102 (10)	BJ-128 (27)
Kissel 6-55.....(1926)	AE-78 (16)	AF-62 (28)	BD-109 (6)	BE-65 (5)	BF-61 (6)	BG-79 (6)	BI-102 (10)	BJ-128 (27)
Kissel 8-75.....(1926)	AE-78 (16)	AF-62 (28)	BD-109 (6)	BE-65 (5)	BF-61 (6)	BG-79 (6)	BI-102 (10)	BJ-128 (27)
Kissel 6-55, Col.....(1927)	AE-78 (16)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Kissel 6-70, Col.....(1927)	AE-80 (4)	AF-125 (1)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-146 (1)
Kissel 8-65, Col.....(1927)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-103 (5)	BJ-128 (27)
Kissel 8-75.....(1927)	AE-78 (16)	AF-62 (28)	BD-5 (66)	BE-65 (5)	BF-61 (6)	BG-79 (6)	BI-5 (36)	BJ-128 (27)
Kissel 6-70, Col.....(Early 1928)	AE-80 (4)	AF-63 (3)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-9 (11)
Kissel 6-70, Col.....(Late 1928)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-8 (27)	BJ-9 (11)
Kissel 8-80, Col.....(Early 1928)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-103 (5)	BJ-128 (27)
Kissel 8-80, Col.....(Late 1928)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-103 (5)	BJ-128 (27)
Kissel 8-90.....(1928)	AE-78 (16)	AF-62 (28)	BD-111 (1)	BE-66 (2)	BF-62 (2)	BG-80 (2)	BI-104 (2)	BJ-9 (11)
Kissel 6-73, Col.....(1929)	AE-5 (24)	AF-6 (29)	BD-1 (18)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-8 (27)	BJ-12 (10)
Kissel 8-95, Col.....(1929)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-103 (5)	BJ-128 (27)
Kissel 8-126.....(1929)	AE-81 (1)	AF-62 (28)	BD-112 (1)	BE-66 (2)	BF-62 (2)	BG-80 (2)	BI-104 (2)	BJ-129 (1)
La Salle 303.....(1927)	AE-11 (9)	AF-11 (9)	BD-113 (2)	BE-67 (2)	BF-63 (2)	BG-81 (2)	BI-105 (3)	BJ-130 (2)
La Salle 303.....(1928)	AE-11 (9)	AF-11 (9)	BD-113 (2)	BE-67 (2)	BF-63 (2)	BG-81 (2)	BI-105 (3)	BJ-130 (2)
La Salle 328.....(1925)	AE-11 (9)	AF-11 (9)	BD-114 (1)	BE-68 (1)	BF-64 (1)	BG-82 (1)	BI-105 (3)	BJ-131 (1)
Lexington Concord.....(1925)	AE-130 (1)	AF-103 (1)	BD-134 (1)	BE-5 (57)	BF-5 (61)	BG-84 (1)	BI-2 (7)	BJ-132 (3)
Lexington Minute Man.....(1925)	AE-131 (1)	AF-104 (1)	BD-116 (1)	BE-24 (1)	BF-21 (1)	BG-85 (2)	BI-106 (1)	BJ-132 (3)
Lexington 6-50.....(1926)	AE-129 (1)	AF-102 (1)	BD-115 (1)	BE-5 (57)	BF-5 (61)	BG-83 (1)	BI-2 (7)	BJ-132 (3)
Lincoln 8.....(1925)	AE-122 (2)	AF-64 (6)	BD-117 (5)	BE-4 (46)	BF-4 (39)	BG-15 (6)	BI-107 (5)	BJ-24 (6)
Lincoln 8.....(1926)	AE-122 (2)	AF-64 (6)	BD-117 (5)	BE-4 (46)	BF-4 (39)	BG-15 (6)	BI-107 (5)	BJ-24 (6)
Lincoln 8.....(1927)	AE-121 (4)	AF-64 (6)	BD-117 (5)	BE-4 (46)	BF-4 (39)	BG-15 (6)	BI-107 (5)	BJ-24 (6)
Lincoln 8.....(1928)	AE-121 (4)	AF-64 (6)	BD-117 (5)	BE-4 (46)	BF-4 (39)	BG-15 (6)	BI-107 (5)	BJ-24 (6)
Lincoln 8.....(1929-30)	AE-121 (4)	AF-64 (6)	BD-117 (5)	BE-4 (46)	BF-4 (39)	BG-15 (6)	BI-107 (5)	BJ-133 (4)
Locomobile Jr. 6.....(1925)	AE-56 (6)	AF-45 (6)	BD-118 (1)	BE-69 (1)	BF-65 (1)	BG-85 (2)	BI-108 (1)	BJ-134 (5)
Locomobile Jr. 8.....(1925)	AE-56 (6)	AF-45 (6)	BD-119 (4)	BE-70 (4)	BF-66 (4)	BG-86 (4)	BI-109 (4)	BJ-134 (5)
Locomobile 48.....(1925)	AE-82 (5)	AF-65 (5)	BD-120 (1)	BE-71 (5)	BF-67 (5)	BG-87 (5)	BI-110 (9)	BJ-135 (5)
Locomobile 48.....(1926)	AE-82 (5)	AF-65 (5)	BD-121 (4)	BE-71 (5)	BF-67 (5)	BG-87 (5)	BI-110 (9)	BJ-135 (5)
Locomobile 90.....(1926)	AE-123 (4)	AF-105 (4)	BD-122 (1)	BE-72 (5)	BF-69 (3)	BG-88 (4)	BI-111 (4)	BJ-136 (4)
Locomobile Jr. 8.....(1926)	AE-56 (6)	AF-45 (6)	BD-119 (4)	BE-70 (4)	BF-66 (4)	BG-86 (4)	BI-109 (4)	BJ-134 (5)
Locomobile 48.....(1927)	AE-82 (5)	AF-65 (5)	BD-121 (4)	BE-71 (5)	BF-67 (5)	BG-87 (5)	BI-110 (9)	BJ-135 (5)
Locomobile 8-66.....(1927)	AE-124 (1)	AF-106 (1)	BD-119 (4)	BE-70 (4)	BF-66 (4)	BG-86 (4)	BI-109 (4)	BJ-134 (5)
Locomobile 8-80.....(1927)	AE-125 (3)	AF-107 (3)	BD-123 (4)	BE-72 (5)	BF-68 (4)	BG-89 (4)	BI-110 (9)	BJ-137 (3)
Locomobile 90.....(1927)	AE-123 (4)	AF-105 (4)	BD-124 (3)	BE-73 (2)	BF-69 (3)	BG-88 (4)	BI-111 (4)	BJ-136 (4)
Locomobile 48.....(1928)	AE-82 (5)	AF-65 (5)	BD-121 (4)	BE-71 (5)	BF-67 (5)	BG-87 (5)	BI-110 (9)	BJ-135 (5)
Locomobile 8-70.....(1928)	AE-126 (1)	AF-108 (1)	BD-119 (4)	BE-70 (4)	BF-66 (4)	BG-86 (4)	BI-109 (4)	BJ-134 (5)
Locomobile 8-80.....(1928)	AE-125 (3)	AF-107 (3)	BD-123 (4)	BE-72 (5)	BF-68 (4)	BG-89 (4)	BI-110 (9)	BJ-137 (3)
Locomobile 90.....(1928)	AE-123 (4)	AF-105 (4)	BD-124 (3)	BE-73 (2)	BF-69 (3)	BG-88 (4)	BI-111 (4)	BJ-136 (4)
Locomobile 48.....(1929)	AE-82 (5)	AF-65 (5)	BD-121 (4)	BE-71 (5)	BF-67 (5)	BG-87 (5)	BI-110 (9)	BJ-135 (5)
Locomobile 8-80.....(1929)	AE-125 (3)	AF-107 (3)	BD-123 (4)	BE-72 (5)	BF-68 (4)	BG-89 (4)	BI-110 (9)	BJ-137 (3)
Locomobile 86, 88.....(1929)	AE-127 (1)	AF-109 (1)	BD-123 (4)	BE-72 (5)	BF-68 (4)	BG-89 (4)	BI-110 (9)	BJ-138 (1)
Locomobile 90.....(1929)	AE-123 (4)	AF-105 (4)	BD-124 (3)	BE-75 (1)	BF-70 (1)	BG-88 (4)	BI-111 (4)	BJ-136 (4)
McFarlan T V.....(1925)	AE-83 (4)	AF-66 (4)	BD-126 (4)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-38 (10)	BJ-24 (6)
McFarlan S V.....(1925)	AE-78 (16)	AF-62 (28)	BD-127 (4)	BE-5 (57)	BF-5 (61)	BG-46 (4)	BI-102 (10)	BJ-140 (5)
McFarlan Str. 8.....(1926)	AE-78 (16)	AF-62 (28)	BD-128 (3)	BE-76 (3)	BF-71 (3)	BG-90 (3)	BI-102 (10)	BJ-140 (5)
McFarlan T V.....(1926)	AE-83 (4)	AF-66 (4)	BD-126 (4)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-38 (10)	BJ-133 (4)
McFarlan S V.....(1926)	AE-78 (16)	AF-62 (28)	BD-127 (4)	BE-5 (57)	BF-5 (61)	BG-46 (4)	BI-102 (10)	BJ-140 (5)
McFarlan Str. 8.....(1927)	AE-78 (16)	AF-62 (28)	BD-128 (3)	BE-76 (3)	BF-71 (3)	BG-90 (3)	BI-102 (10)	BJ-140 (5)
McFarlan T V.....(1927)	AE-83 (4)	AF-66 (4)	BD-126 (4)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-38 (10)	BJ-133 (4)
McFarlan Str. 8.....(1928)	AE-78 (16)	AF-62 (28)	BD-128 (3)	BE-76 (3)	BF-71 (3)	BG-90 (3)	BI-102 (10)	BJ-140 (5)
McFarlan T V 6.....(1928)	AE-83 (4)	AF-66 (4)	BD-126 (4)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-38 (10)	BJ-133 (4)
Marmon 74.....(1925)	AE-128 (2)	AF-110 (2)	BD-127 (4)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-112 (2)	BJ-141 (4)
Marmon 74.....(1926)	AE-128 (2)	AF-110 (2)	BD-127 (4)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-112 (2)	BJ-141 (4)
Marmon Little 8.....(1927)	AE-118 (5)	AF-34 (3)	BD-125 (1)	BE-77 (1)	BF-72 (1)	BG-91 (1)	BI-113 (1)	BJ-142 (1)
Marmon E-75.....(1927)	AE-84 (1)	AF-67 (2)	BD-129 (2)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-114 (2)	BJ-141 (4)
Marmon 68.....(1928)	AE-118 (5)	AF-52 (11)	BD-130 (4)	BE-78 (2)	BF-73 (2)	BG-92 (2)	BI-115 (2)	BJ-143 (2)
Marmon E-75.....(1928)	AE-74 (5)	AF-67 (2)	BD-129 (2)	BE-4 (46)	BF-4 (39)	BG-12 (13)	BI-114 (2)	BJ-141 (4)
Marmon 78.....(1928)	AE-119 (3)	AF-52 (11)	BD-130 (4)	BE-79 (2)	BF-74 (2)	BG-93 (2)	BI-116 (2)	BJ-144 (2)
Marmon 68.....(1929)	AE-118 (5)	AF-52 (11)	BD-130 (4)	BE-78 (2)	BF-73 (2)	BG-92 (2)	BI-115 (2)	BJ-143 (2)
Marmon 78.....(1929)	AE-119 (3)	AF-52 (11)	BD-130 (4)	BE-79 (2)	BF-74 (2)	BG-93 (2)	BI-116 (2)	BJ-144 (2)
Marmon-Roosevelt.....(1929)	AE-143 (1)	AF-128 (1)	BD-165 (1)	BE-74 (1)	BF-94 (1)	BG-105 (1)	BI-162 (1)	BJ-103 (2)
Maxwell.....(1925)	AE-85 (1)	AF-68 (1)	BD-30 (2)	BE-17 (2)	BF-17 (2)	BG-132 (2)	BI-117 (1)	BJ-36 (6)
Mercer 6.....(1925)	AE-132 (1)	AF-111 (1)	BD-131 (1)	BE-80 (1)	BF-75 (1)	BG-94 (6)	BI-118 (1)	BJ-145 (1)
Moon Series A, Col.....(1925)	AE-86 (4)	AF-52 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-119 (4)	BJ-147 (4)
Moon Series A, Col.....(1926)	AE-86 (4)	AF-52 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-119 (4)	BJ-147 (4)
Moon 6-60, Col.....(1926)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-120 (3)	BJ-51 (6)
Moon Series A, Col.....(1927)	AE-86 (4)	AF-52 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-119 (4)	BJ-147 (4)
Moon 6-60, Col.....(1927)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-120 (3)	BJ-51 (6)
Moon Series A, Col.....(1928)	AE-86 (4)	AF-52 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-119 (4)	BJ-147 (4)
Moon 6-60, Col.....(1928)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (66)	BG-8 (50)	BI-120 (3)	BJ-51 (6)
Moon 6-72, Col.....(Early 1928)	AE-5 (24)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-121 (5)	BJ-148 (2)
Moon 6-72, Col.....(Late 1928)	AE-5 (24)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-121 (5)	BJ-12 (10)
Moon 8-80, Col.....(1928-29)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Moon 6-72, Col.....(Early 1929)	AE-5 (24)	AF-7 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-8 (50)	BI-121 (5)	BJ-148 (2)
Moon 6-72, Col.....(Late 1929)	AE-6 (11)	AF-7 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-10 (6)	BI-121 (5)	BJ-12 (10)
Moon 8-92, Col.....(1929)	AE-6 (11)	AF-7 (11)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-10 (6)	BI-121 (5)	BJ-12 (10)
Nash Adv. 6.....(1925)	AE-87 (5)	AF-69 (10)	BD-135 (5)	BE-81 (5)	BF-76 (5)	BG-94 (6)	BI-122 (5)	BJ-150 (10)
Nash Spec. 6.....(1925)	AE-88 (5)	AF-69 (10)	BD-136 (1)	BE-82 (5)	BF-77 (5)	BG-95 (5)	BI-123 (5)	BJ-150 (10)
Nash Light 6.....(1925)	AE-1 (6)	AF-1 (6)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-1 (6)	BJ-161 (1)
Nash Adv. 6.....(1926)	AE-87 (5)	AF-69 (10)	BD-135 (5)	BE-81 (5)	BF-76 (5)	BG-94 (6)	BI-122 (5)	BJ-150 (10)
Nash Spec. 6.....(1926)	AE-88 (5)	AF-69 (10)	BD-137 (4)	BE-82 (5)	BF-77 (5)	BG-95 (5)	BI-123 (5)	BJ-150 (10)
Nash Light 6.....(1926)	AE-1 (6)	AF-1 (6)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-1 (6)	BJ-171 (1)
Nash Adv. 6.....(1927)	AE-87 (5)	AF-69 (10)	BD-135 (5)	BE-81 (5)	BF-76 (5)	BG-94 (6)	BI-122 (5)	BJ-150 (10)
Nash Spec. 6.....(1927)	AE-88 (5)	AF-69 (10)	BD-137 (4)	BE-82 (5)	BF-77 (5)	BG-95 (5)	BI-123 (5)	BJ-150 (10)
Nash Light 6.....(1927)	AE-1 (6)	AF-1 (6)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-1 (6)	BJ-1 (4)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

AXLES, Front and Rear—Continued

Car Make and Model	FRONT AXLE		REAR AXLE					
	Steering Knuckle Pivots (King Pins)	Steering Knuckle Pivot Bushings	Differential Case	Differential Spider or Cross Pin	Differential Spider Pinions	Differential Side Gears	Drive Pinion and Ring Gear	Axle Shafts
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Nash Adv. 6 (1928)	AE-87 (5)	AF-69 (10)	BD-135 (5)	BE-81 (5)	BF-76 (5)	BG-94 (6)	BI-122 (5)	BJ-150 (10)
Nash Spec. 6 (1928)	AE-88 (5)	AF-69 (10)	BD-137 (4)	BE-82 (5)	BF-77 (5)	BG-95 (5)	BI-123 (5)	BJ-150 (10)
Nash Std. 6 (1928)	AE-1 (6)	AF-1 (6)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-1 (6)	BJ-1 (4)
Nash Adv. 6 (1929)	AE-87 (5)	AF-69 (10)	BD-135 (5)	BE-81 (5)	BF-76 (5)	BG-94 (6)	BI-122 (5)	BJ-150 (10)
Nash Spec. 6 (1929)	AE-88 (5)	AF-69 (10)	BD-137 (4)	BE-82 (5)	BF-77 (5)	BG-95 (5)	BI-123 (5)	BJ-150 (10)
Nash Std. 6 (1929)	AE-1 (6)	AF-1 (6)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-1 (6)	BJ-1 (4)
Oakland 6-54 (1925)	AE-89 (6)	AF-70 (5)	BD-138 (6)	BE-83 (6)	BF-10 (19)	BG-96 (6)	BI-124 (4)	BJ-151 (5)
Oakland O 6 (1926)	AE-89 (5)	AF-70 (5)	BD-138 (6)	BE-83 (6)	BF-10 (19)	BG-96 (6)	BI-124 (4)	BJ-151 (5)
Oakland GO 6 (1927)	AE-89 (5)	AF-70 (5)	BD-138 (6)	BE-83 (6)	BF-10 (19)	BG-96 (6)	BI-124 (4)	BJ-151 (5)
Oakland AA 6 (1928)	AE-89 (5)	AF-70 (5)	BD-138 (6)	BE-83 (6)	BF-10 (19)	BG-96 (6)	BI-125 (1)	BJ-151 (5)
Oakland AA 6 (1929)	AE-89 (5)	AF-70 (5)	BD-138 (6)	BE-83 (6)	BF-10 (19)	BG-96 (6)	BI-124 (4)	BJ-151 (5)
Oldsmobile C30 (1925)	AE-90 (2)	AF-71 (2)	BD-139 (5)	BE-84 (5)	BF-23 (5)	BG-97 (7)	BI-126 (3)	BJ-152 (5)
Oldsmobile D30 (1926)	AE-90 (2)	AF-71 (2)	BD-139 (5)	BE-84 (5)	BF-23 (5)	BG-97 (7)	BI-126 (3)	BJ-152 (5)
Oldsmobile E (1927)	AE-91 (3)	AF-72 (3)	BD-139 (5)	BE-84 (5)	BF-23 (5)	BG-97 (7)	BI-126 (3)	BJ-152 (5)
Oldsmobile F 28 (1928)	AE-91 (3)	AF-72 (3)	BD-139 (5)	BE-84 (5)	BF-23 (5)	BG-97 (7)	BI-127 (2)	BJ-152 (5)
Oldsmobile F 29 (1929)	AE-91 (3)	AF-72 (3)	BD-139 (5)	BE-84 (5)	BF-23 (5)	BG-97 (7)	BI-127 (2)	BJ-152 (5)
Overland 91 (1925)	AE-92 (2)	AF-73 (2)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-128 (2)	BJ-85 (7)
Overland 93 (1925)	AE-93 (2)	AF-74 (2)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-77 (5)	BJ-85 (7)
Overland 91 (1926)	AE-92 (2)	AF-73 (2)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-128 (2)	BJ-85 (7)
Overland 93 (1926)	AE-93 (2)	AF-74 (2)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-77 (5)	BJ-85 (7)
Packard 6 cyl., 326, 333 (1925)	AE-96 (12)	AF-76 (12)	BD-141 (5)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-130 (2)	BJ-156 (1)
Packard 8 cyl., 236, 243 (1925)	AE-96 (12)	AF-76 (12)	BD-142 (2)	BE-85 (7)	BF-78 (7)	BG-69 (8)	BI-131 (3)	BJ-157 (2)
Packard 6 cyl., 326, 333 (1926)	AE-96 (12)	AF-76 (12)	BD-141 (5)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-130 (2)	BJ-158 (6)
Packard 8 cyl., 236, 243 (1926)	AE-96 (12)	AF-76 (12)	BD-142 (2)	BE-85 (7)	BF-78 (7)	BG-69 (8)	BI-131 (3)	BJ-157 (2)
Packard 6 cyl., 426, 433 (1927)	AE-96 (12)	AF-76 (12)	BD-141 (5)	BE-86 (5)	BF-79 (5)	BG-70 (4)	BI-132 (1)	BJ-158 (6)
Packard 8 cyl., 336, 343 (1927)	AE-96 (12)	AF-76 (12)	BD-143 (5)	BE-85 (7)	BF-78 (7)	BG-69 (8)	BI-131 (3)	BJ-159 (2)
Packard 6 cyl., 526 (1928)	AE-96 (12)	AF-76 (12)	BD-141 (5)	BE-86 (5)	BF-79 (5)	BG-70 (4)	BI-133 (2)	BJ-158 (6)
Packard Std. 8, 443 (1928)	AE-96 (12)	AF-76 (12)	BD-143 (5)	BE-85 (7)	BF-78 (7)	BG-69 (8)	BI-134 (2)	BJ-159 (2)
Packard 6 cyl., 533 (1928)	AE-96 (12)	AF-76 (12)	BD-141 (5)	BE-86 (5)	BF-79 (5)	BG-70 (4)	BI-133 (2)	BJ-158 (6)
Packard 626 (1929)	AE-96 (12)	AF-76 (12)	BD-143 (5)	BE-85 (7)	BF-78 (7)	BG-69 (8)	BI-135 (2)	BJ-158 (6)
Packard 633 (1929)	AE-96 (12)	AF-76 (12)	BD-143 (5)	BE-85 (7)	BF-78 (7)	BG-69 (8)	BI-135 (2)	BJ-158 (6)
Packard 640, 645 (1929)	AE-96 (12)	AF-76 (12)	BD-143 (5)	BE-85 (7)	BF-78 (7)	BG-69 (8)	BI-134 (2)	BJ-162 (1)
Paige 6-70 (1925)	AE-97 (1)	AF-77 (1)	BD-144 (1)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-136 (1)	BJ-163 (2)
Paige 6-72 (1926)	AE-141 (1)	AF-126 (1)	BD-145 (1)	BE-87 (1)	BF-80 (1)	BG-71 (6)	BI-137 (1)	BJ-163 (2)
Paige 6-45 (1927-28)	AE-8 (4)	AF-5 (21)	BD-105 (2)	BE-60 (2)	BF-56 (2)	BG-72 (5)	BI-6 (5)	BJ-122 (2)
Paige 6-65 (1927-28)	AE-77 (4)	AF-43 (3)	BD-146 (3)	BE-10 (10)	BF-10 (19)	BG-73 (4)	BI-138 (3)	BJ-164 (1)
Paige 6-75 (1927-28)	AE-133 (3)	AF-78 (2)	BD-147 (2)	BE-89 (2)	BF-57 (6)	BG-74 (3)	BI-139 (1)	BJ-75 (4)
Paige 8-85 (1927-28)	AE-133 (3)	AF-78 (2)	BD-147 (2)	BE-89 (2)	BF-57 (6)	BG-74 (3)	BI-140 (1)	BJ-75 (4)
Peerless 70, Eat. Fr. (1925)	AE-71 (12)	AF-62 (28)	BD-148 (1)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-141 (2)	BJ-128 (27)
Peerless 80, Col. (1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-166 (3)
Peerless 69, Eat. Fr. (1926)	AE-71 (12)	AF-62 (28)	BD-149 (3)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-142 (3)	BJ-168 (7)
Peerless 80, Col. (1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-166 (3)
Peerless 90 (1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Peerless 60 (1927)	AE-5 (24)	AF-5 (21)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-9 (11)
Peerless 69, Eat. Fr. (1927)	AE-71 (12)	AF-62 (28)	BD-149 (3)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-142 (3)	BJ-168 (7)
Peerless 90 (Early 1927)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Peerless 90 (Late 1927)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Peerless 80, Col. (Early 1927)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-166 (3)
Peerless 80, Col. (Late 1927)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-128 (27)
Peerless 72, Eat. Fr. (1927-28)	AE-71 (12)	AF-62 (28)	BD-150 (2)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-141 (2)	BJ-168 (7)
Peerless 90, Col. (1927-28)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Peerless 60, Col. (Early 1928)	AE-5 (24)	AF-5 (21)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-9 (11)
Peerless 60, Col. (Late 1928)	AE-5 (24)	AF-5 (21)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-12 (10)
Peerless 69 (1928)	AE-71 (12)	AF-62 (28)	BD-149 (3)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-142 (3)	BJ-168 (7)
Peerless 80, Col. (1928)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-128 (27)
Peerless 81, Col. (1928)	AE-142 (1)	AF-127 (1)	BD-87 (1)	BE-8 (76)	BF-7 (78)	BG-9 (3)	BI-143 (2)	BJ-12 (10)
Peerless 91, Col. (Early 1928)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Peerless 91, Col. (Late 1928)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Peerless 61, Col. (Early 1929)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (60)	BI-8 (27)	BJ-9 (11)
Peerless 61, Col. (Late 1929)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-10 (6)	BI-8 (27)	BJ-12 (10)
Peerless 81, Col. (1929)	AE-5 (24)	AF-6 (29)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-10 (6)	BI-143 (2)	BJ-12 (10)
Peerless 91, Col. (1929)	AE-4 (69)	AF-4 (67)	BD-150 (2)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-5 (36)	BJ-128 (27)
Peerless 125, Col. (1929)	AE-98 (1)	AF-79 (1)	BD-151 (1)	BE-90 (1)	BF-81 (1)	BG-75 (5)	BI-144 (1)	BJ-102 (1)
Pierce Arrow 80, Eat. Fr. (1925)	AE-99 (4)	AF-80 (4)	BD-152 (4)	BE-91 (4)	BF-82 (4)	BG-76 (9)	BI-145 (4)	BJ-128 (27)
Pierce Arrow 33 (1926)	AE-101 (1)	AF-81 (1)	BD-153 (3)	BE-92 (3)	BF-83 (3)	BG-77 (6)	BI-146 (1)	BJ-167 (1)
Pierce Arrow 80, Eat. Fr. (1926)	AE-99 (4)	AF-80 (4)	BD-152 (4)	BE-91 (4)	BF-82 (4)	BG-76 (9)	BI-145 (4)	BJ-128 (27)
Pierce Arrow 36 (1927)	AE-102 (2)	AF-82 (2)	BD-153 (3)	BE-92 (3)	BF-83 (3)	BG-77 (6)	BI-147 (2)	BJ-168 (7)
Pierce Arrow 80, Eat. Fr. (1927)	AE-99 (4)	AF-80 (4)	BD-152 (4)	BE-91 (4)	BF-82 (4)	BG-76 (9)	BI-145 (4)	BJ-128 (27)
Pierce Arrow 36 (1928)	AE-102 (2)	AF-82 (2)	BD-153 (3)	BE-92 (3)	BF-83 (3)	BG-77 (6)	BI-147 (2)	BJ-168 (7)
Pierce Arrow 81 (1928)	AE-99 (4)	AF-80 (4)	BD-152 (4)	BE-91 (4)	BF-82 (4)	BG-76 (9)	BI-145 (4)	BJ-169 (1)
Pierce Arrow 133, 143 (1929)	AE-103 (1)	AF-83 (1)	BD-154 (1)	BE-93 (1)	BF-84 (1)	BG-78 (2)	BI-148 (1)	BJ-170 (1)
Plymouth (1929)	AE-30 (2)	AF-5 (21)	BD-56 (2)	BE-94 (1)	BF-85 (1)	BG-79 (6)	BI-149 (1)	BJ-55 (2)
Pontiac 6 (1926)	AE-21 (4)	AF-20 (4)	BD-27 (7)	BE-95 (8)	BF-15 (8)	BG-24 (8)	BI-150 (3)	BJ-33 (8)
Pontiac 6 (1927)	AE-22 (4)	AF-21 (5)	BD-27 (7)	BE-95 (8)	BF-15 (8)	BG-24 (8)	BI-150 (3)	BJ-33 (8)
Pontiac 6 (1928)	AE-22 (4)	AF-21 (5)	BD-27 (7)	BE-95 (8)	BF-15 (8)	BG-24 (8)	BI-150 (3)	BJ-33 (8)
Pontiac Big 6 (1929)	AE-22 (4)	AF-21 (5)	BD-138 (6)	BE-83 (6)	BF-10 (19)	BG-96 (6)	BI-151 (1)	BJ-173 (1)
Reo T 6 (1925)	AE-104 (2)	AF-84 (2)	BD-155 (2)	BE-96 (2)	BF-86 (2)	BG-97 (7)	BI-152 (2)	BJ-174 (2)
Reo T 6 (1926-27)	AE-104 (2)	AF-84 (2)	BD-155 (2)	BE-96 (2)	BF-86 (2)	BG-97 (7)	BI-152 (2)	BJ-174 (2)
Reo, Flying Cloud (1927)	AE-105 (4)	AF-85 (4)	BD-156 (4)	BE-97 (4)	BF-87 (4)	BG-98 (4)	BI-153 (4)	BJ-175 (4)
Reo, Wolverine (1927)	AE-77 (4)	AF-52 (11)	BD-146 (3)	BE-10 (10)	BF-10 (19)	BG-73 (4)	BI-138 (3)	BJ-104 (3)
Reo, Flying Cloud (1928)	AE-105 (4)	AF-85 (4)	BD-156 (4)	BE-97 (4)	BF-87 (4)	BG-98 (4)	BI-153 (4)	BJ-175 (4)
Reo, Wolverine (1928)	AE-77 (4)	AF-52 (11)	BD-146 (3)	BE-10 (10)	BF-10 (19)	BG-73 (4)	BI-138 (3)	BJ-104 (3)
Reo, Flying Cloud Master (1929)	AE-105 (4)	AF-85 (4)	BD-156 (4)	BE-97 (4)	BF-87 (4)	BG-98 (4)	BI-153 (4)	BJ-175 (4)
Reo, Flying Cloud Mate (1929)	AE-105 (4)	AF-85 (4))	BD-156 (4)	BE-97 (4)	BF-87 (4)	BG-98 (4)	BI-153 (4)	BJ-175 (4)
Rickenbacker C Col. (1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-4 (7)	BI-156 (9)	BJ-178 (2)
Rickenbacker C Col. (Late 1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-156 (9)	BJ-179 (8)
Rickenbacker 6D Col. (Early 1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-4 (7)	BI-156 (9)	BJ-178 (2)
Rickenbacker 6D Col. (Late 1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-156 (9)	BJ-179 (8)
Rickenbacker 6E Col. (1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-156 (9)	BJ-4 (12)
Rickenbacker 8A Col. (1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-19 (12)	BI-156 (9)	BJ-28 (5)
Rickenbacker 8B Col. (1925)	AE-4 (69)	AF-4 (67)	BD-20 (8)	BE-5 (57)	BF-5 (61)	BG-19 (12)	BI-21 (5)	BJ-179 (8)
Rickenbacker 8A Col. (1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-19 (12)	BI-156 (9)	BJ-28 (5)
Rickenbacker 8B Col. (1926)	AE-4 (69)	AF-4 (67)	BD-20 (8)	BE-5 (57)	BF-5 (61)	BG-19 (12)	BI-21 (5)	BJ-179 (8)
Rickenbacker 6E Col. (1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-156 (9)	BJ-4 (12)
Rickenbacker 6D Col. (1926)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-156 (9)	BJ-179 (8)
Rickenbacker 6-70 Col. (1927)	AE-4 (69)	AF-6 (29)	BD-10 (47)	BE-43 (5)	BF-8 (56)	BG-8 (50)	BI-8 (27)	BJ-9 (11)
Rickenbacker 8-80 Col. (Early 1927)	AE-4 (69)	AF-4 (67)	BD-10 (47)	BE-43 (5)	BF-8 (56)	BG-8 (50)	BI-8 (27)	BJ-9 (11)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

AXLES, Front and Rear—Continued

Car Make and Model	FRONT AXLE		REAR AXLE					
	Steering Knuckle Pivots (King Pins)	Steering Knuckle Pivot Bushings	Differential Case	Differential Spider or Cross Pin	Differential Spider Pinions	Differential Side Gears	Drive Pinion and Ring Gear	Axle Shafts
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Rickenbacker 8-80 Col.....(Late 1927)	AE-5 (24)	AF-6 (29)	BD-10 (47)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-8 (27)	BJ-180 (1)
Rickenbacker 8-90 Col.....(1927)	AE-4 (69)	AF-4 (67)	BD-20 (8)	BE-5 (57)	BF-7 (78)	BG-19 (12)	BI-21 (5)	BJ-179 (8)
Roamer 4-75E.....(1925)	AE-106 (5)	AF-86 (5)	BD-159 (4)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-157 (4)	BJ-181 (4)
Roamer 6-54E.....(1925)	AE-106 (5)	AF-86 (5)	BD-159 (4)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-157 (4)	BJ-181 (4)
Roamer 4-75E.....(1926)	AE-106 (5)	AF-86 (5)	BD-159 (4)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-157 (4)	BJ-181 (4)
Roamer 6-50.....(1926)	AE-106 (5)	AF-86 (5)	BD-160 (1)	BE-100 (1)	BF-90 (1)	BG-101 (1)	BI-158 (1)	BJ-182 (1)
Roamer 6-54E.....(1926)	AE-106 (5)	AF-86 (5)	BD-159 (4)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-157 (4)	BJ-181 (4)
Roamer 8-78.....(1926)	AE-140 (4)	AF-121 (4)	BD-163 (4)	BE-102 (4)	BF-92 (4)	BG-102 (4)	BI-159 (4)	BJ-149 (1)
Roamer 8-80.....(1926)	AE-139 (4)	AF-120 (4)	BD-161 (4)	BE-101 (4)	BF-91 (4)	BG-104 (4)	BI-160 (4)	BJ-183 (4)
Roamer 8-88.....(1926)	AE-138 (4)	AF-119 (4)	BD-162 (4)	BE-103 (4)	BF-93 (4)	BG-103 (4)	BI-161 (4)	BJ-184 (3)
Roamer 8-78.....(1927)	AE-140 (4)	AF-121 (4)	BD-163 (4)	BE-102 (4)	BF-92 (4)	BG-102 (4)	BI-159 (4)	BJ-153 (1)
Roamer 8-80.....(1927)	AE-139 (4)	AF-120 (4)	BD-161 (4)	BE-101 (4)	BF-91 (4)	BG-104 (4)	BI-160 (4)	BJ-183 (4)
Roamer 8-88.....(1927)	AE-138 (4)	AF-119 (4)	BD-162 (4)	BE-103 (4)	BF-93 (4)	BG-103 (4)	BI-161 (4)	BJ-185 (3)
Roamer 8-78.....(1928)	AE-140 (4)	AF-121 (4)	BD-163 (4)	BE-102 (4)	BF-92 (4)	BG-102 (4)	BI-159 (4)	BJ-183 (4)
Roamer 8-80.....(1928)	AE-139 (4)	AF-120 (4)	BD-161 (4)	BE-101 (4)	BF-91 (4)	BG-104 (4)	BI-160 (4)	BJ-184 (3)
Roamer 8-88.....(1928)	AE-138 (4)	AF-119 (4)	BD-162 (4)	BE-103 (4)	BF-93 (4)	BG-103 (4)	BI-161 (4)	BJ-185 (3)
Roamer 8-78.....(1929)	AE-140 (4)	AF-121 (4)	BD-163 (4)	BE-102 (4)	BF-92 (4)	BG-102 (4)	BI-159 (4)	BJ-183 (4)
Roamer 8-80.....(1929)	AE-139 (4)	AF-120 (4)	BD-161 (4)	BE-101 (4)	BF-91 (4)	BG-104 (4)	BI-160 (4)	BJ-184 (3)
Roamer 8-88.....(1929)	AE-138 (4)	AF-119 (4)	BD-162 (4)	BE-103 (4)	BF-93 (4)	BG-103 (4)	BI-161 (4)	BJ-185 (3)
Rollin G.....(1925)	AE-107 (1)	AF-87 (1)	BD-164 (1)	BE-88 (1)	BF-22 (1)	BG-133 (1)	BI-6 (5)	BJ-186 (1)
Star F.....(1925)	AE-108 (1)	AF-88 (1)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-78 (8)	BJ-189 (5)
Star M.....(1926)	AE-41 (10)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-78 (8)	BJ-189 (5)
Star R.....(1926)	AE-41 (10)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-78 (8)	BJ-189 (5)
Star M.....(1927-28)	AE-41 (10)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-78 (8)	BJ-189 (5)
Star R.....(1927-28)	AE-41 (10)	AF-31 (14)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-78 (8)	BJ-189 (5)
Stearns Knight.....(1925)	AE-109 (17)	AF-89 (1)	BD-166 (1)	BE-104 (1)	BF-95 (1)	BG-106 (1)	BI-163 (1)	BJ-160 (1)
Stearns Knight B.....(1925)	AE-110 (11)	AF-90 (11)	BD-167 (2)	BE-105 (2)	BF-96 (2)	BG-107 (2)	BI-164 (2)	BJ-168 (7)
Stearns Knight Eat. Fr.....(1925)	AE-110 (11)	AF-90 (11)	BD-168 (2)	BE-106 (2)	BF-97 (2)	BG-108 (2)	BI-165 (2)	BJ-191 (2)
Stearns Knight S.....(1925)	AE-71 (12)	AF-62 (28)	BD-169 (2)	BE-107 (2)	BF-98 (2)	BG-109 (2)	BI-166 (2)	BJ-192 (2)
Stearns Knight B.....(1926)	AE-110 (11)	AF-90 (11)	BD-167 (2)	BE-105 (2)	BF-96 (2)	BG-107 (2)	BI-164 (2)	BJ-190 (1)
Stearns Knight C-75.....(1926)	AE-110 (11)	AF-90 (11)	BD-168 (2)	BE-106 (2)	BF-97 (2)	BG-108 (2)	BI-165 (2)	BJ-191 (2)
Stearns Knight S-95.....(1926)	AE-110 (11)	AF-90 (11)	BD-169 (2)	BE-107 (2)	BF-98 (2)	BG-109 (2)	BI-166 (2)	BJ-192 (2)
Stearns Knight F. 6-85.....(1927)	AE-110 (11)	AF-90 (11)	BD-170 (2)	BE-108 (2)	BF-99 (2)	BG-110 (2)	BI-167 (2)	BJ-193 (2)
Stearns Knight G. 885.....(1927-28)	AE-110 (11)	AF-90 (11)	BD-171 (2)	BE-109 (1)	BF-100 (1)	BG-111 (1)	BI-168 (1)	BJ-165 (1)
Stearns Knight F. 6-85.....(1928)	AE-110 (11)	AF-90 (11)	BD-170 (2)	BE-108 (2)	BF-99 (2)	BG-110 (2)	BI-167 (2)	BJ-193 (2)
Stearns Knight H. & J. 8-90.....(1928)	AE-110 (11)	AF-90 (11)	BD-171 (2)	BE-110 (2)	BF-101 (2)	BG-112 (2)	BI-169 (2)	BJ-194 (2)
Stearns Knight H. & J. 8-90.....(1929)	AE-110 (11)	AF-90 (11)	BD-172 (1)	BE-110 (2)	BF-101 (2)	BG-112 (2)	BI-169 (2)	BJ-194 (2)
Stearns Knight M. & N. 6-80.....(1928-29)	AE-110 (11)	AF-90 (11)	BD-173 (1)	BE-111 (1)	BF-102 (1)	BG-113 (1)	BI-170 (1)	BJ-195 (1)
Stevens Duryea G.....(1925-26)	AE-13 (7)	AF-13 (7)	BD-174 (1)	BE-4 (46)	BF-4 (39)	BG-114 (1)	BI-171 (1)	BJ-196 (1)
Studebaker Big 6.....(1925)	AE-111 (9)	AF-91 (9)	BD-175 (6)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-197 (6)
Studebaker Spec. 6.....(1925)	AE-111 (9)	AF-91 (9)	BD-175 (6)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-197 (6)
Studebaker Sta. 6.....(1925)	AE-111 (9)	AF-91 (9)	BD-176 (5)	BE-113 (5)	BF-104 (5)	BG-116 (5)	BI-173 (5)	BJ-198 (5)
Studebaker Big 6.....(1926)	AE-111 (9)	AF-91 (9)	BD-175 (6)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-197 (6)
Studebaker Std. 6.....(1926)	AE-111 (9)	AF-91 (9)	BD-176 (5)	BE-113 (5)	BF-104 (5)	BG-116 (5)	BI-173 (5)	BJ-198 (5)
Studebaker Spec. 6.....(1926)	AE-111 (9)	AF-91 (9)	BD-175 (6)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-197 (6)
Studebaker Big 6.....(1927)	AE-111 (9)	AF-91 (9)	BD-175 (6)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-197 (6)
Studebaker Spec. 6.....(1927)	AE-111 (9)	AF-91 (9)	BD-175 (6)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-197 (6)
Studebaker Std. 6.....(1927)	AE-111 (9)	AF-91 (9)	BD-176 (5)	BE-113 (5)	BF-104 (5)	BG-116 (5)	BI-173 (5)	BJ-198 (5)
Studebaker Com. 6.....(1928)	AE-113 (5)	AF-93 (5)	BD-177 (5)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-199 (5)
Studebaker Dic. 6.....(1928)	AE-112 (2)	AF-92 (2)	BD-176 (5)	BE-113 (5)	BF-104 (5)	BG-116 (5)	BI-174 (2)	BJ-198 (5)
Studebaker Pres. 8.....(1928)	AE-113 (5)	AF-93 (5)	BD-177 (5)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-175 (3)	BJ-199 (5)
Studebaker Com. 6.....(1929-30)	AE-113 (5)	AF-93 (5)	BD-177 (5)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-172 (8)	BJ-199 (5)
Studebaker Com. 8.....(1929-30)	AE-113 (5)	AF-93 (5)	BD-177 (5)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-175 (3)	BJ-199 (5)
Studebaker Dict. 6.....(1929)	AE-112 (2)	AF-92 (2)	BD-176 (5)	BE-113 (5)	BF-104 (5)	BG-116 (5)	BI-174 (2)	BJ-198 (5)
Studebaker Pres. 8.....(1929-30)	AE-113 (5)	AF-93 (5)	BD-177 (5)	BE-112 (11)	BF-103 (11)	BG-115 (11)	BI-175 (3)	BJ-199 (5)
Stutz 695.....(1925)	AE-13 (7)	AF-13 (7)	BD-178 (1)	BE-5 (57)	BF-5 (61)	BG-68 (14)	BI-176 (1)	BJ-200 (1)
Stutz A. A.....(1926)	AE-114 (2)	AF-94 (2)	BD-179 (3)	BE-114 (3)	BF-105 (3)	BG-117 (3)	BI-177 (3)	BJ-128 (27)
Stutz A. A.....(1927)	AE-114 (2)	AF-94 (2)	BD-179 (3)	BE-114 (3)	BF-105 (3)	BG-117 (3)	BI-177 (3)	BJ-128 (27)
Stutz B. B.....(1928)	AE-116 (1)	AF-96 (1)	BD-179 (3)	BE-114 (3)	BF-105 (3)	BG-117 (3)	BI-177 (3)	BJ-128 (27)
Stutz Series M.....(1929)	AE-115 (1)	AF-95 (1)	BD-180 (1)	BE-115 (1)	BF-106 (1)	BG-118 (1)	BI-178 (1)	BJ-201 (1)
Velie 56, Col.....(Early 1925)	AE-4 (69)	AF-4 (67)	BD-4 (6)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-5 (36)	BJ-202 (7)
Velie 60, Col.....(1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (4)	BI-7 (19)	BJ-179 (8)
Velie 56, Col.....(Late 1925)	AE-4 (69)	AF-4 (67)	BD-4 (6)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-5 (36)	BJ-202 (7)
Velie 60.....(1926)	AE-4 (69)	AF-5 (21)	BD-5 (66)	BE-8 (76)	BF-7 (78)	BG-7 (61)	BI-7 (19)	BJ-179 (8)
Velie Std. 50.....(1927)	AE-4 (69)	AF-5 (21)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-8 (27)	BJ-202 (7)
Velie Spec. 60.....(1927-28)	AE-4 (69)	AF-5 (21)	BD-10 (47)	BE-8 (76)	BF-8 (56)	BG-8 (50)	BI-8 (27)	BJ-202 (7)
Velie Std. 50.....(1928)	AE-4 (69)	AF-5 (21)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-8 (27)	BJ-202 (7)
Velie 6-66.....(1928)	AE-117 (2)	AF-5 (21)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-8 (27)	BJ-202 (7)
Velie 6-77.....(1928)	AE-117 (2)	AF-5 (21)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-8 (27)	BJ-202 (7)
Velie 88, Col.....(1928)	AE-4 (69)	AF-4 (67)	BD-181 (1)	BE-116 (1)	BF-107 (1)	BG-119 (1)	BI-179 (1)	BJ-203 (1)
Viking.....(1929)	AE-133 (3)	AF-113 (1)	BD-182 (1)	BE-117 (1)	BF-108 (1)	BG-120 (1)	BI-180 (1)	BJ-204 (1)
Westcott 44, Col., 8 cyl.....(1925)	AE-4 (69)	AF-4 (67)	BD-20 (8)	BE-5 (57)	BF-5 (61)	BG-19 (12)	BI-22 (4)	BJ-64 (8)
Westcott 60, Col., 6 cyl.....(1925)	AE-4 (69)	AF-4 (67)	BD-5 (66)	BE-5 (57)	BF-5 (61)	BG-5 (8)	BI-5 (36)	BJ-49 (6)
Whippet 96, 4 cyl.....(1927)	AE-94 (4)	AF-75 (6)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-1 (16)	BI-129 (5)	BJ-154 (3)
Whippet 93A, 6 cyl.....(1927)	AE-95 (2)	AF-75 (6)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-77 (5)	BJ-85 (7)
Whippet 96, 4 cyl.....(1928)	AE-94 (4)	AF-75 (6)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-129 (5)	BJ-154 (3)
Whippet 98, 6 cyl.....(1928)	AE-95 (2)	AF-75 (6)	BD-140 (2)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-129 (5)	BJ-85 (7)
Whippet 96A.....(1929)	AE-94 (4)	AF-75 (6)	BD-10 (47)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-129 (5)	BJ-154 (3)
Whippet 98A.....(1929)	AE-94 (4)	AF-75 (6)	BD-140 (2)	BE-7 (48)	BF-8 (56)	BG-8 (50)	BI-129 (5)	BJ-155 (1)
Wills St. Claire 6, Eat. Fr.....(1925)	AE-71 (12)	AF-62 (28)	BD-190 (2)	BE-126 (2)	BF-117 (2)	BG-128 (1)	BI-188 (2)	BJ-124 (5)
Wills St. Claire 8, Eat. Fr.....(1925)	AE-71 (12)	AF-62 (28)	BD-94 (2)	BE-5 (57)	BF-5 (61)	BG-129 (2)	BI-189 (2)	BJ-209 (2)
Wills St. Claire 6.....(1926)	AE-71 (12)	AF-62 (28)	BD-190 (2)	BE-126 (2)	BF-117 (2)	BG-128 (2)	BI-188 (2)	BJ-124 (5)
Wills St. Claire 8.....(1926)	AE-71 (12)	AF-62 (28)	BD-94 (2)	BE-5 (57)	BF-5 (61)	BG-129 (2)	BI-189 (2)	BJ-210 (1)
Willys Knight 66.....(1925)	AE-55 (7)	AF-97 (4)	BD-183 (1)	BE-118 (1)	BF-109 (1)	BG-121 (1)	BI-181 (1)	BJ-205 (1)
Willys Knight 65.....(1925)	AE-55 (7)	AF-97 (4)	BD-184 (1)	BE-119 (1)	BF-110 (1)	BG-122 (1)	BI-182 (1)	BJ-206 (1)
Willys Knight 66.....(1926)	AE-134 (1)	None	BD-185 (1)	BE-120 (1)	BF-111 (1)	BG-123 (1)	BI-183 (3)	BJ-207 (3)
Willys Knight 70.....(1926)	AE-55 (7)	AF-97 (4)	BD-186 (1)	BE-121 (2)	BF-112 (2)	BG-124 (2)	BI-184 (3)	BJ-208 (3)
Willys Knight 66A.....(1927)	AE-135 (3)	None	BD-187 (2)	BE-122 (1)	BF-113 (1)	BG-125 (2)	BI-183 (3)	BJ-207 (3)
Willys Knight 70A.....(1927)	AE-55 (7)	AF-97 (4)	BD-188 (1)	BE-121 (2)	BF-112 (2)	BG-124 (2)	BI-184 (3)	BJ-208 (3)
Willys Knight Great 6.....(1928)	AE-135 (3)	AF-114 (1)	BD-189 (1)	BE-123 (1)	BF-114 (1)	BG-125 (2)	BI-185 (1)	BJ-209 (2)
Willys Knight Std. 6-56.....(1928)	AE-55 (7)	AF-115 (1)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-186 (1)	BJ-86 (2)
Willys Knight Spec. 6-70A.....(1928-29)	AE-136 (1)	AF-116 (1)	BD-1 (18)	BE-1 (18)	BF-1 (18)	BG-1 (16)	BI-187 (1)	BJ-211 (1)
Willys Knight 66A.....(1929)	AE-135 (3)	AF-117 (1)	BD-187 (2)	BE-124 (1)	BF-115 (1)	BG-126 (1)	BI-183 (3)	BJ-207 (3)
Willys Knight 70B.....(1929)	AE-137 (1)	AF-118 (1)	BD-92 (1)	BE-125 (1)	BF-116 (1)	BG-127 (1)	BI-184 (3)	BJ-208 (3)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

*Early 1927 Cars use AE-53 and AF-43 front axle parts.

Abbreviations: Col.—Columbia Axles. Eat. Fr.—Eaton Front Axles.

Digitized by Google

COOLING SYSTEM

WATER PUMP PARTS—RADIATOR FILLER CAP—FAN BELT

Passenger Cars from 1925 to 1930, Inclusive

HOW TO USE THIS TABLE

1. Locate in the first column the car and model for which the part is needed.

2. Follow this line across to column pertaining to that part.

3. In this Part Column opposite your car model you will find the CHILTON NUMBER for the part you want. (The figure in parentheses tells you how many times you can find this CHILTON NUMBER in this column.)

4. Look up and down the part column for the same CHILTON NUMBER. Wherever you find this same number in this same column you have an interchangeable part. The car make opposite tells you where to get it—probably from another local dealer.

Example: Suppose a Fan Belt is needed for a Roamer 4-75E (1925) car. Locate this car in the first column. Follow across to the column on Fan Belts, which is the last column. Here you see the CHILTON NUMBER for this part is FH-13. The figure five (5) in parentheses means that this CHILTON NUMBER occurs five times in this column, indicating that four or more other car models use an interchangeable part. Checking through the CHILTON NUMBERS in this same column, you will find the number FH-13 opposite the Buick Master (1925), Buick Master (1926), Buick 120, 128 (1927) and the Roamer 4-75E (1926) cars. The Fan Belt used in all these cars is interchangeable with the one in your Roamer 4-75E (1925) car.

For Cooling System Capacities, See Page 340

Car Make and Model	Water Pump						Radiator Filler Cap	Fan Belt
	Body Assembly	Shaft	Impeller	Bushings	Packing Nut or Gland (Right Hand)	Packing Nut or Gland (Left Hand)		
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Ajax, Nash L6 (1925-26)	FA-1 (2)	FB-1 (2)	FC-1 (2)	FD-1 (2) FD-112 (2)	FE-1 (2)	None	FG-1 (34)	FH-1 (1)
Anderson 41, Cont. 7-U (1925)	FA-2 (7)	FB-2 (7)	FC-2 (7)	FD-2 (7)	FE-2 (7)	None	FG-2 (6)	FH-2 (6)
Anderson 50, Cont. 8-R (1925)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (16)	FE-3 (10)	FF-1 (9)	FG-2 (6)	FH-3 (12)
Apperson 6, Velie 50 (1925)	FA-4 (2)	FB-4 (2)	FC-4 (2)	FD-4 (2)	FE-4 (2)	FF-2 (2)	FG-3 (15)	FH-4 (15)
Apperson Str. 8, Lyc. 2-H (1925)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-5 (7)	FF-3 (7)	FG-3 (15)	FH-5 (19)
Auburn 4, Lyc. CF (1925)	FA-6 (5)	FB-6 (5)	FC-6 (5)	FD-6 (5)	FE-6 (5)	FF-4 (5)	FG-4 (55)	FH-2 (6)
Auburn 6-43, Cont. 7-U (1925)	FA-2 (7)	FB-2 (7)	FC-2 (7)	FD-2 (7)	FE-2 (7)	None	FG-4 (55)	FH-6 (6)
Auburn 8-88, Lyc. 2-H (1925)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-5 (7)	FF-3 (7)	FG-4 (55)	FH-5 (19)
Auburn 8-88, Lyc. 4-HM (1926)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (55)	FH-8 (12)
Auburn 4-44, Lyc. CF (1926-27)	FA-6 (5)	FB-6 (5)	FC-6 (5)	FD-6 (5)	FE-6 (5)	FF-4 (5)	FG-4 (55)	FH-2 (6)
Auburn 6-66, Lyc. 4-SM (1926-27)	FA-8 (4)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-8 (4)	FF-6 (4)	FG-4 (55)	FH-8 (12)
Auburn 6-66-A, Cont. 28-L (1927)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-4 (55)	FH-9 (22)
Auburn 8-88, Lyc. 4-HM (1927)	FA-9 (48	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (55)	FH-8 (12)
Auburn 8-77, Lyc. GT (1927-28)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (55)	FH-10 (16)
Auburn 76, Lyc. WS (1928-29)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-8 (12)
Auburn 88, Lyc. WS (1928-29)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-8 (12)
Auburn 115, Lyc. 4-MD (1928-29)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-11 (16)
Auburn 6-80, Lyc. WR (1929)	FA-7 (4)	FB-8 (55)	FC-8 (59)	FD-8 (4)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-10 (16)
Auburn 8-90, Lyc. GR (1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-10 (16)
Auburn 120, Lyc. MDA (1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-11 (16)
Auburn 6-85, Lyc. WR (1930)	FA-7 (4)	FB-8 (55)	FC-8 (59)	FD-8 (4)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-10 (16)
Auburn 8-95, Lyc. GR (1930)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-10 (16)
Auburn 125, Lyc. MDA (1930)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-5 (13)	FH-11 (16)
Blackhawk L6 (1929)	FA-11 (1)	FB-11 (1)	FC-11 (1)	FD-10 (3)	FE-15 (1)	FF-8 (1)	FG-36 (4)	FH-12 (2)
Blackhawk L8 (1929)	FA-12 (1)	FB-12 (1)	FC-12 (1)	FD-10 (3)	FE-16 (1)	FF-9 (1)	FG-36 (4)	FH-19 (14)
Buick Master (1925)	FA-13 (2)	FB-13 (1)	FC-13 (1)	FD-12 (9) FD-113 (9)	FE-17 (2)	FF-10 (2)	FG-7 (7)	FH-13 (5)
Buick Std. (1925)	FA-14 (1)	FB-14 (1)	FC-14 (1)	FD-11 (1)	FE-18 (8)	FF-10 (2)	FG-1 (34)	FH-14 (4)
Buick Master (1926)	FA-13 (2)	FB-15 (1)	FC-15 (3)	FD-12 (9) FD-113 (9)	FE-17 (2)	None	FG-7 (7)	FH-13 (5)
Buick Std. (1926)	FA-15 (1)	FB-16 (7)	FC-16 (7)	FD-12 (9) FD-113 (9)	FE-18 (8)	None	FG-7 (7)	FH-14 (4)
Buick 115 (1927)	FA-16 (3)	FB-16 (7)	FC-16 (7)	FD-12 (9) FD-113 (9)	FE-18 (8)	None	FG-7 (7)	FH-14 (4)
Buick 120, 128 (1927)	FA-148 (3)	FB-16 (7)	FC-16 (7)	FD-12 (9) FD-113 (9)	FE-18 (8)	None	FG-7 (7)	FH-13 (5)
Buick 115 (1928)	FA-16 (3)	FB-16 (7)	FC-16 (7)	FD-12 (9) FD-113 (9)	FE-18 (8)	None	FG-7 (7)	FH-14 (4)
Buick 120, 128 (1928)	FA-148 (3)	FB-16 (7)	FC-16 (7)	FD-12 (9) FD-113 (9)	FE-18 (8)	None	FG-7 (7)	FH-7 (2)
Buick 116 (1929)	FA-16 (3)	FB-16 (7)	FC-16 (7)	FD-12 (9) FD-113 (9)	FE-18 (8)	None	FG-8 (3)	FH-15 (15)
Buick 121, 129 (1929)	FA-148 (3)	FB-16 (7)	FC-16 (7)	FD-12 (9) FD-113 (9)	FE-18 (8)	None	FG-8 (3)	FH-15 (15)
Cadillac V63 (1925)	FA-17 (1)	FB-17 (2)	FC-17 (1)	FD-13 (1) FD-114 (1)	FE-19 (1)	FF-11 (1)	FG-9 (64)	None
Cadillac 314 (1926)	FA-18 (2)	FB-17 (2)	FC-18 (4)	FD-14 (7) FD-115 (7)	FE-20 (2)	None	FG-38 (6)	FH-16 (2)
Cadillac 314 (1927)	FA-18 (2)	FB-18 (6)	FC-18 (4)	FD-14 (7) FD-115 (7)	FE-20 (2)	None	FG-38 (6)	FH-16 (2)
Cadillac 341-A (1928)	FA-19 (5)	FB-18 (6)	FC-18 (4)	FD-14 (7) FD-115 (7)	FE-14 (5)	None	Special	FH-17 (2)
Cadillac 341-B (1929)	FA-19 (5)	FB-18 (6)	FC-18 (4)	FD-14 (7) FD-115 (7)	FE-14 (5)	None	Special	FH-17 (2)
Case JIC, Cont. 8-R (1925)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (16)	FE-3 (10)	FF-1 (9)	FG-10 (7)	FH-3 (12)
Case X, Cont. 8-R (1925)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (16)	FE-3 (10)	FF-1 (9)	FG-10 (7)	FH-3 (12)
Case Y, Cont. 6-T (1925)	FA-20 (1)	FB-131 (1)	FC-7 (2)	FD-45 (2) FD-106 (5)	FE-3 (10)	FF-1 (9)	FG-10 (7)	FH-8 (12)
Case JIC, Cont. 8-R (1926-27)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (16)	FE-3 (10)	FF-1 (9)	FG-10 (7)	FH-3 (12)
Case Y, Cont. 6-J (1926-27)	FA-3 (11)	FB-9 (3)	FC-3 (11)	FD-3 (16)	FE-21 (6)	FF-12 (5)	FG-10 (7)	FH-8 (12)
Chandler 33 (1925)	FA-21 (4)	FB-19 (4)	FC-20 (4)	FD-15 (4) FD-116 (4)	FE-22 (4)	FF-14 (4)	FG-11 (7)	FH-18 (13)
Chandler 35 (1926)	FA-21 (4)	FB-19 (4)	FC-20 (4)	FD-15 (4) FD-116 (4)	FE-22 (4)	FF-14 (4)	FG-11 (7)	FH-18 (13)
Chandler Big 6 (1927)	FA-21 (4)	FB-19 (4)	FC-20 (4)	FD-15 (4) FD-116 (4)	FE-22 (4)	FF-14 (4)	FG-11 (7)	FH-18 (13)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

COOLING SYSTEM—Continued

Car Make and Mode	Water Pump: Body Assembly	Water Pump: Shaft	Water Pump: Impeller	Water Pump: Bushings	Water Pump: Packing Nut or Gland (Right Hand)	Water Pump: Packing Nut or Gland (Left Hand)	Radiator Filler Cap	Fan Belt
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Chandler Royal 8.....(1927)	FA-22 (2)	FB-20 (2)	FC-21 (2)	FD-16 (2)	FE-23 (2)	None	FG-13 (2)	FH-19 (14)
Chandler Spec. 6.....(1927)	FA-23 (3)	FB-21 (3)	FC-22 (3)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-9 (22)
Chandler Std. 6.....(1927)	FA-149 (5)	FB-22 (5)	FC-9 (5)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-9 (22)
Chandler Big 6.....(1928)	FA-21 (4)	FB-19 (4)	FC-20 (4)	FD-15 (4) FD-116 (4)	FE-22 (4)	FF-14 (4)	FG-12 (25)	FH-18 (13)
Chandler Royal 8.....(1928)	FA-22 (2)	FB-20 (2)	FC-21 (2)	FD-16 (2)	FE-23 (2)	None	FG-13 (2)	FH-20 (17)
Chandler Spec. 6.....(1928)	FA-149 (5)	FB-22 (5)	FC-9 (5)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-21 (7)
Chandler Spec. Inv. 6.....(1928)	FA-149 (5)	FB-22 (5)	FC-9 (5)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-21 (7)
Chevrolet K.....(1925)	FA-24 (1)	FB-23 (3)	FC-23 (3)	FD-18 (6)	FE-25 (1)	None	FG-14 (15)	FH-23 (4)
Chevrolet V.....(1926)	FA-25 (1)	FB-23 (3)	FC-23 (3)	FD-18 (6)	FE-13 (2)	None	FG-14 (15)	FH-23 (4)
Chevrolet AA.....(1927)	FA-26 (2)	FB-23 (3)	FC-23 (3)	FD-18 (6)	FE-13 (2)	None	FG-14 (15)	FH-23 (4)
Chevrolet AB.....(1928)	FA-26 (2)	FB-24 (1)	FC-24 (1)	FD-18 (6)	FE-26 (1)	None	FG-15 (2)	FH-23 (4)
Chevrolet AC.....(1929)	FA-27 (1)	FB-25 (1)	FC-25 (1)	FD-19 (1)	FE-27 (1)	None	FG-15 (2)	FH-24 (1)
Chrysler 6-B.....(1925)	FA-28 (7)	FB-26 (7)	FC-26 (7)	FD-20 (11)	FE-28 (7)	None	FG-16 (54)	FH-25 (13)
Chrysler 58.....(1926)	None	None	None	None	None	None	FG-16 (54)	FH-26 (25)
Chrysler 70.....(1926)	FA-28 (7)	FB-26 (7)	FC-26 (7)	FD-20 (11)	FE-28 (7)	None	FG-16 (54)	FH-25 (13)
Chrysler 80.....(1926)	FA-29 (2)	FB-27 (4)	FC-27 (4)	FD-20 (11)	FE-29 (2)	None	FG-9 (64)	FH-27 (3)
Chrysler 50.....(1927)	None	None	None	None	None	None	FG-16 (54)	FH-26 (25)
Chrysler 60.....(1927)	FA-28 (7)	FB-26 (7)	FC-26 (7)	FD-20 (11)	FE-28 (7)	None	FG-16 (54)	FH-26 (25)
Chrysler 70.....(1927)	FA-28 (7)	FB-26 (7)	FC-26 (7)	FD-20 (11)	FE-28 (7)	None	FG-16 (54)	FH-25 (13)
Chrysler 80.....(1927)	FA-29 (2)	FB-27 (4)	FC-27 (4)	FD-20 (11)	FE-29 (2)	None	FG-9 (64)	FH-27 (3)
Chrysler 52.....(1928)	None	None	None	None	None	None	FG-16 (54)	FH-26 (25)
Chrysler 62.....(1928)	FA-28 (7)	FB-26 (7)	FC-26 (7)	FD-20 (11)	FE-28 (7)	None	FG-16 (54)	FH-26 (25)
Chrysler 72.....(1928)	FA-28 (7)	FB-26 (7)	FC-26 (7)	FD-20 (11)	FE-28 (7)	None	FG-16 (54)	FH-9 (22)
Chrysler Imp. 80.....(1928)	FA-30 (2)	FB-27 (4)	FC-27 (4)	FD-20 (11)	FE-30 (2)	None	FG-9 (64)	FH-9 (22)
Chrysler 65.....(1929)	FA-31 (2)	FB-29 (2)	FC-15 (3)	FD-21 (2)	FE-31 (2)	None	FG-17 (5)	FH-19 (14)
Chrysler 75.....(1929)	FA-28 (7)	FB-26 (7)	FC-26 (7)	FD-20 (11)	FE-28 (7)	None	FG-18 (6)	FH-9 (22)
Chrysler Imp. 80.....(1929)	FA-30 (2)	FB-27 (4)	FC-27 (4)	FD-20 (11)	FE-30 (2)	None	FG-18 (6)	FH-9 (22)
Cleveland 31.....(1925)	FA-149 (5)	FB-22 (5)	FC-9 (5)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-9 (22)
Cleveland 43.....(1925)	FA-23 (3)	FB-21 (3)	FC-22 (3)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-9 (22)
Cleveland 31.....(1926)	FA-149 (5)	FB-22 (5)	FC-9 (5)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-9 (22)
Cleveland 43.....(1926)	FA-23 (3)	FB-21 (3)	FC-22 (3)	FD-17 (8) FD-117 (8)	FE-24 (8)	FF-15 (8)	FG-12 (25)	FH-9 (22)
Cole Master.....(1925)	FA-32 (1)	FB-31 (1)	FC-28 (1)	FD-23 (1)	FE-32 (1)	FF-16 (1)	FG-11 (7)	FH-11 (16)
Davis 90, Cont. 7-U.....(1925-26)	FA-2 (7)	FB-2 (7)	FC-2 (7)	FD-2 (7)	FE-2 (7)	None	FG-4 (35)	FH-6 (6)
Davis 91, Cont. 8-R.....(1925-26)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (15)	FE-3 (10)	FF-1 (9)	FG-4 (35)	FH-3 (12)
Davis 92, Cont. 11-U.....(1926)	FA-35 (2)	FB-28 (2)	FC-31 (2)	FD-26 (2)	FE-35 (16)	None	FG-4 (35)	FH-9 (22)
Davis 93, Cont. 20-L.....(1926)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-4 (35)	FH-9 (22)
Davis 92, Cont. 11-U.....(1927)	FA-35 (2)	FB-28 (2)	FC-31 (2)	FD-26 (2)	FE-35 (16)	None	FG-4 (35)	FH-9 (22)
Davis 94, Cont. 28-L.....(1927)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-4 (35)	FH-9 (22)
Davis 98, Cont. 8-S.....(1927)	FA-36 (7)	FB-33 (7)	FC-10 (24)	FD-108 (7)	FE-36 (7)	None	FG-4 (35)	FH-30 (6)
Davis 99, Cont. 14-S.....(1928)	FA-36 (7)	FB-33 (7)	FC-10 (24)	FD-108 (7)	FE-36 (7)	None	FG-39 (1)	FH-30 (6)
De Soto.....(1929)	FA-31 (2)	FB-29 (2)	FC-15 (3)	FD-21 (2)	FE-31 (2)	None	FG-40 (1)	FH-29 (4)
Diana Str. 8, Cont. 12-Z.....(1926)	FA-37 (3)	FB-34 (8)	FC-33 (3)	FD-28 (8)	FE-37 (11)	None	FG-20 (24)	FH-31 (14)
Diana Str. 8, Cont. 12-Z.....(1927)	FA-37 (3)	FB-34 (8)	FC-33 (3)	FD-28 (8)	FE-37 (11)	None	FG-20 (24)	FH-28 (20)
Diana Str. 8, Cont. 12-Z.....(1928)	FA-37 (3)	FB-34 (8)	FC-33 (3)	FD-28 (8)	FE-37 (11)	None	FG-20 (24)	FH-28 (20)
Dodge Brothers 4.....(1925)	FA-38 (2)	FB-35 (2)	FC-34 (2)	FD-29 (3) FD-118 (3)	FE-38 (2)	FE-38 (2)	FG-12 (25)	FH-4 (15)
Dodge Brothers 4.....(1926)	FA-38 (2)	FB-35 (2)	FC-34 (2)	FD-29 (3) FD-118 (3)	FE-38 (2)	FE-38 (2)	FG-12 (25)	FH-4 (15)
Dodge Brothers 4.....(1927-28)	FA-39 (1)	FB-36 (1)	FC-35 (1)	FD-29 (3) FD-118 (3)	FE-39 (1)	FE-39 (1)	FG-12 (25)	FH-4 (15)
Dodge Brothers Senior.....(1928)	FA-40 (2)	FB-37 (2)	FC-36 (2)	FD-30 (2)	FE-40 (2)	None	FG-12 (25)	FH-9 (22)
Dodge Std. 6.....(1928)	FA-41 (2)	FB-38 (2)	FC-37 (2)	FD-18 (6)	FE-12 (2)	None	FG-12 (25)	FH-33 (18)
Dodge Brothers Vic. 6.....(1928-29)	FA-41 (2)	FB-38 (2)	FC-37 (2)	FD-18 (6)	FE-12 (2)	None	FG-41 (1)	FH-33 (18)
Dodge Brothers Senior.....(1929)	FA-40 (2)	FB-37 (2)	FC-36 (2)	FD-30 (2)	FE-40 (2)	None	FG-42 (1)	FH-9 (22)
Dodge Brothers Std. 6.....(1929)	FA-150 (1)	FB-132 (1)	FC-32 (1)	FD-22 (1)	FE-9 (1)	None	FG-43 (1)	FH-28 (20)
Dorris.....(1925)	FA-42 (1)	FB-39 (1)	FC-38 (1)	FD-31 (1)	FE-41 (1)	FF-19 (1)	FG-21 (1)	FH-32 (7)
du Pont D, Wisc. Y.....(1925)	FA-44 (5)	FB-42 (5)	FC-41 (5)	FD-33 (5) FD-120 (5)	FE-43 (5)	FF-21 (5)	FG-1 (34)	FH-26 (25)
du Pont D, Wisc. Y.....(1926)	FA-44 (5)	FB-42 (5)	FC-41 (5)	FD-33 (5) FD-120 (5)	FE-43 (5)	FF-21 (5)	FG-1 (34)	FH-26 (25)
du Pont E, Wisc. Y.....(1927)	FA-44 (5)	FB-42 (5)	FC-41 (5)	FD-33 (5) FD-120 (5)	FE-43 (5)	FF-21 (5)	FG-1 (34)	FH-26 (25)
du Pont E, F, Wisc. Y.....(1928)	FA-44 (5)	FB-42 (5)	FC-41 (5)	FD-33 (5) FD-120 (5)	FE-43 (5)	FF-21 (5)	FG-1 (34)	FH-26 (25)
du Pont E, Wisc. Y.....(1929)	FA-44 (5)	FB-42 (5)	FC-41 (5)	FD-33 (5) FD-120 (5)	FE-43 (5)	FF-21 (5)	FG-45 (2)	FH-26 (25)
du Pont G, Cont. 12-K.....(1929)	FA-45 (6)	FB-55 (6)	FC-42 (6)	FD-39 (6) FD-109 (6)	FE-44 (6)	FF-40 (6)	FG-45 (2)	FH-34 (8)
Durant A22, Cont. Spec.....(1925)	FA-46 (1)	FB-43 (1)	FC-43 (16)	FD-70 (4)	FE-45 (1)	None	FG-1 (34)	FH-9 (22)
Durant D55, Cont. 14-L.....(1928)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-1 (34)	FH-35 (10)
Durant D65, Cont. 15-L.....(1928)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-1 (34)	FH-6 (6)
Durant M2, Cont. W5.....(1928-29)	FA-48 (5)	FB-44 (5)	FC-44 (5)	FD-34 (20)	FE-11 (29)	None	FG-1 (34)	FH-35 (10)
Durant 75, Cont. 15-U.....(1928-29)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-1 (34)	FH-36 (16)
Durant 4-40, Cont. W5.....(1929)	FA-48 (5)	FB-44 (5)	FC-44 (5)	FD-34 (20)	FE-11 (29)	None	FG-46 (1)	FH-35 (10)
Durant 6-60, Cont. 14-L.....(1929)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-1 (34)	FH-3 (12)
Durant 66, Cont. 15-L.....(1929)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-47 (2)	FH-3 (12)
Durant 70, Cont. 20-E.....(1929)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-47 (2)	FH-3 (12)
Elcar 4-40, Lyc. CF.....(1925)	FA-6 (5)	FB-6 (5)	FC-6 (5)	FD-6 (5)	FE-6 (5)	FF-4 (5)	FG-4 (35)	FH-2 (6)
Elcar 6-50, Cont. 7-U.....(1925)	FA-2 (7)	FB-2 (7)	FC-2 (7)	FD-2 (7)	FE-2 (7)	None	FG-4 (35)	FH-6 (6)
Elcar 6-60, Cont. 8-R.....(1925)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (15)	FE-3 (10)	FF-1 (9)	FG-4 (35)	FH-3 (12)
Elcar 8-80, Lyc. H.....(1925)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-5 (7)	FF-3 (7)	FG-4 (35)	FH-5 (19)
Elcar 6-65, Lyc. 4-SM.....(1926)	FA-8 (4)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-8 (4)	FF-6 (4)	FG-4 (35)	FH-8 (12)
Elcar 8-81, Lyc. 4-H.....(1926)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-5 (7)	FF-7 (59)	FG-4 (35)	FH-10 (16)
Elcar 4-55, Lyc. CE.....(1926-27)	FA-6 (5)	FB-6 (5)	FC-6 (5)	FD-6 (5)	FE-6 (5)	FF-4 (5)	FG-4 (35)	FH-6 (6)
Elcar 6-70, Lyc. WT.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-26 (25)
Elcar 8-82, Lyc. GT.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-10 (16)
Elcar 8-90, Lyc. 4-HM.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-10 (16)
Elcar 8-91, Lyc. 4-HM.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-20 (17)
Elcar 120, Lyc. MD.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-20 (17)
Elcar 6-70, Lyc. WS.....(1928-29)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-37 (15)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

COOLING SYSTEM—Continued

Car Make and Model	Water Pump: Body Assembly	Water Pump: Shaft	Water Pump: Impeller	Water Pump: Bushings	Water Pump: Packing Nut or Gland (Right Hand)	Water Pump: Packing Nut or Gland (Left Hand)	Radiator Filler Cap	Fan Belt
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Elcar 8-78, Lyc. GT.....(1928-29)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-20 (17)
Elcar 8-82, Lyc. GS.....(1928-29)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-20 (17)
Elcar, 75, Lyc. WS.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-22 (3)	FH-20 (17)
Elcar 95, 96, Lyc. GS.....(1929-30)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-22 (3)	FH-20 (17)
Elcar 120, Lyc. MD.....(1929-30)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-22 (3)	FH-20 (17)
Elcar 130, 140, Cont. 12-K.....(1930)	FA-45 (6)	FB-55 (6)	FC-42 (6)	FD-39 (6) FD-109 (6)	FE-44 (6)	FF-40 (6)	FG-61 (1)	FH-34 (8)
Erskine 6-50, Cont. 8-F.....(1927)	FA-49 (3)	FB-46 (8)	FC-47 (7)	FD-107 (11)	FE-35 (16)	None	FG-12 (25)	FH-33 (18)
Erskine 6-51, Cont. 9-F.....(1928)	FA-49 (3)	FB-46 (8)	FC-47 (7)	FD-107 (11)	FE-35 (16)	None	FG-48 (9)	FH-33 (18)
Erskine 6-52, Cont. 9-F.....(1929)	FA-49 (3)	FB-46 (8)	FC-47 (7)	FD-107 (11)	FE-35 (16)	None	FG-48 (9)	FH-33 (18)
Essex 6.....(1925)	None	None	None	None	None	None	FG-14 (15)	FH-4 (15)
Essex 6.....(1926)	None	None	None	None	None	None	FG-14 (15)	FH-4 (15)
Essex Super 6.....(1927)	None	None	None	None	None	None	FG-9 (64)	FH-25 (13)
Essex Super 6.....(1928)	None	None	None	None	None	None	FG-9 (64)	FH-25 (13)
Essex Challenger.....(1929)	None	None	None	None	None	None	FG-9 (64)	FH-25 (13)
Falcon Knight 10.....(1927-28)	FA-51 (2)	FB-47 (2)	FC-49 (2)	FD-35 (2)	FE-47 (2)	None	FG-16 (54)	FH-9 (22)
Falcon Knight 12.....(1928-29)	FA-51 (2)	FB-47 (2)	FC-49 (2)	FD-35 (2)	FE-47 (2)	None	FG-16 (54)	FH-9 (22)
Flint E55, Cont. 6-E.....(1925)	FA-53 (3)	FB-49 (3)	FC-51 (3)	FD-106 (5) FD-110 (3)	FE-21 (6)	None	FG-1 (34)	FH-31 (14)
Flint B40, Cont. 7-U.....(1925-26)	FA-2 (7)	FB-2 (7)	FC-2 (7)	FD-2 (7)	FE-2 (7)	None	FG-1 (34)	FH-37 (13)
Flint 60, Cont. 14-U.....(1926)	FA-52 (2)	FB-34 (8)	FC-10 (24)	FD-28 (8)	FE-37 (11)	None	FG-1 (34)	FH-9 (22)
Flint 80, Cont. 6-E.....(1926)	FA-53 (3)	FB-49 (3)	FC-51 (3)	FD-106 (5) FD-110 (3)	FE-21 (6)	FF-12 (5)	FG-1 (34)	FH-31 (14)
Flint Jr., Cont. 9-L.....(1926)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-16 (54)	FH-28 (20)
Flint Jr., Cont. 9-L.....(1927)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-16 (54)	FH-28 (20)
Flint 60, Cont. 14-U.....(1927-28)	FA-52 (2)	FB-34 (8)	FC-10 (24)	FD-28 (8)	FE-37 (11)	None	FG-1 (34)	FH-9 (22)
Flint 80, Cont. 6-E.....(1927-28)	FA-53 (3)	FB-49 (3)	FC-51 (3)	FD-106 (5) FD-110 (3)	FE-21 (6)	FF-12 (5)	FG-1 (34)	FH-31 (14)
Ford T.....(1925)	None	None	None	None	None	None	FG-49 (3)	FH-44 (1)
Ford T.....(1926)	None	None	None	None	None	None	FG-49 (3)	FH-45 (2)
Ford T.....(1927)	None	None	None	None	None	None	FG-49 (3)	FH-45 (2)
Ford A.....(1928)	FA-55 (2)	FB-48 (2)	FC-53 (2)	FD-36 (2)	FE-50 (2)	None	FG-23 (2)	FH-20 (17)
Ford A.....(1929)	FA-55 (2)	FB-48 (2)	FC-53 (2)	FD-36 (2)	FE-50 (2)	None	FG-23 (2)	FH-20 (17)
Gardner 6-A, Lyc. 4-S.....(1925)	FA-8 (4)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-8 (4)	FF-6 (4)	FG-9 (64)	FH-27 (3)
Gardner 8-A, Lyc. 2H.....(1925)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-5 (7)	FF-3 (7)	FG-9 (64)	FH-5 (19)
Gardner Series 5, Lyc. CE.....(1925)	FA-6 (5)	FB-6 (5)	FC-6 (5)	FD-6 (5)	FE-6 (5)	FF-4 (5)	FG-9 (64)	FH-2 (6)
Gardner 6-B, Lyc. 4-SM.....(1926-27)	FA-8 (4)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-8 (4)	FF-6 (4)	FG-9 (64)	FH-37 (13)
Gardner 8-A, Lyc. 4-HM.....(1926-27)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-8 (12)
Gardner 80, Lyc. GT.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-26 (25)
Gardner 90, Lyc. 4-HM.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-8 (12)
Gardner 75, Lyc. GT.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-37 (13)
Gardner 85, Lyc. GS.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-37 (13)
Gardner 95, Lyc. MD.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-11 (16)
Gardner 120, Lyc. GT.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-24 (6)	FH-10 (16)
Gardner 125, Lyc. GS.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-24 (6)	FH-10 (16)
Gardner 130, Lyc. MD.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-24 (6)	FH-11 (16)
Gardner 136, Lyc. WR.....(1930)	FA-7 (4)	FB-8 (55)	FC-8 (59)	FD-8 (4)	FE-10 (60)	FF-7 (59)	FG-24 (6)	FH-36 (16)
Gardner 140, Lyc. GR.....(1930)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-24 (6)	FH-10 (16)
Gardner 150, Lyc. MD.....(1930)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-24 (6)	FH-11 (16)
Graham Paige 610.....(1928-29)	FA-56 (4)	FB-53 (4)	FC-54 (4)	FD-37 (4)	FE-53 (4)	FF-24 (4)	FG-50 (1)	FH-39 (2)
Graham Paige 614.....(1928-29)	FA-56 (4)	FB-53 (4)	FC-54 (4)	FD-37 (4)	FE-53 (4)	FF-24 (4)	FG-51 (8)	FH-39 (2)
Graham Paige 619.....(1928-29)	FA-57 (3)	FB-54 (3)	FC-55 (3)	FD-38 (3)	FE-54 (3)	FF-25 (3)	FG-51 (8)	FH-40 (4)
Graham Paige 629.....(1928-29)	FA-57 (3)	FB-54 (3)	FC-55 (3)	FD-38 (3)	FE-54 (3)	FF-25 (3)	FG-51 (8)	FH-40 (4)
Graham Paige 835, Cont. 12-K...(1928-29)	FA-45 (6)	FB-55 (6)	FC-42 (6)	FD-39 (6) FD-109 (6)	FE-44 (6)	FF-40 (6)	FG-51 (8)	FH-41 (1)
Graham Paige 612.....(1929)	FA-56 (4)	FB-53 (4)	FC-54 (4)	FD-37 (4)	FE-53 (4)	FF-24 (4)	FG-17 (5)	FH-42 (2)
Graham Paige 615.....(1929)	FA-56 (4)	FB-53 (4)	FC-54 (4)	FD-37 (4)	FE-53 (4)	FF-24 (4)	FG-18 (6)	FH-42 (2)
Graham Paige 621.....(1929)	FA-57 (3)	FB-54 (3)	FC-55 (3)	FD-38 (3)	FE-54 (3)	FF-25 (3)	FG-18 (6)	FH-40 (4)
Graham Paige 827, Cont. 12-K...(1929)	FA-45 (6)	FB-55 (6)	FC-42 (6)	FD-39 (6) FD-109 (6)	FE-44 (6)	FF-40 (6)	FG-18 (6)	FH-75 (2)
Graham Paige 837, Cont. 12-K...(1929)	FA-45 (6)	FB-55 (6)	FC-42 (6)	FD-39 (6) FD-109 (6)	FE-44 (6)	FF-40 (6)	FG-18 (6)	FH-75 (2)
Haynes 60.....(1925)	FA-59 (1)	FB-56 (1)	FC-57 (1)	FD-45 (2)	FE-56 (1)	FF-27 (1)	FG-2 (6)	FH-76 (3)
Hudson Super 6.....(1925)	FA-60 (3)	FB-57 (3)	FC-58 (3)	FD-40 (3) FD-119 (3)	FE-57 (6)	FF-28 (6)	FG-9 (64)	FH-4 (15)
Hudson Super 6.....(1926)	FA-60 (3)	FB-57 (3)	FC-58 (3)	FD-40 (3) FD-119 (3)	FE-57 (6)	FF-28 (6)	FG-9 (64)	FH-4 (15)
Hudson Super 6.....(Early 1927)	FA-60 (3)	FB-57 (3)	FC-58 (3)	FD-40 (3) FD-119 (3)	FE-57 (6)	FF-28 (6)	FG-9 (64)	FH-4 (15)
Hudson Super 6.....(Late 1927)	FA-61 (3)	FB-58 (3)	FC-59 (3)	FD-41 (3) FD-121 (2)	FE-57 (6)	FF-28 (6)	FG-9 (64)	FH-20 (17)
Hudson Super 6.....(1928)	FA-61 (3)	FB-58 (3)	FC-59 (3)	FD-41 (3) FD-121 (2)	FE-57 (6)	FF-28 (6)	FG-9 (64)	FH-20 (17)
Hudson Greater 6.....(1929)	FA-61 (3)	FB-58 (3)	FC-59 (3)	FD-41 (3) FD-141 (1)	FE-57 (6)	FF-28 (6)	FG-9 (64)	FH-20 (17)
Hupmobile R.....(1925)	None	None	None	None	None	None	FG-25 (7)	FH-43 (1)
Hupmobile E1.....(1925-26)	FA-62 (6)	FB-59 (6)	FC-60 (6)	FD-42 (6)	FE-58 (6)	None	FG-25 (7)	FH-11 (16)
Hupmobile A1.....(1926)	FA-63 (2)	FB-60 (2)	FC-61 (2)	FD-43 (4)	FE-59 (2)	None	FG-25 (7)	FH-15 (15)
Hupmobile E2.....(1926-27)	FA-62 (6)	FB-59 (6)	FC-60 (6)	FD-42 (6)	FE-58 (6)	None	FG-25 (7)	FH-11 (16)
Hupmobile A2.....(1927)	FA-63 (2)	FB-60 (2)	FC-61 (2)	FD-43 (4)	FE-59 (2)	None	FG-25 (7)	FH-15 (15)
Hupmobile E3.....(1927-28)	FA-62 (6)	FB-59 (6)	FC-60 (6)	FD-42 (6)	FE-58 (6)	None	FG-25 (7)	FH-36 (16)
Hupmobile Cent. 6.....(1928)	FA-58 (2)	FB-52 (2)	FC-56 (2)	FD-43 (4)	FE-60 (2)	None	FG-25 (7)	FH-15 (15)
Hupmobile Cent. 8.....(1928)	FA-62 (6)	FB-59 (6)	FC-60 (6)	FD-42 (6)	FE-58 (6)	None	FG-52 (4)	FH-36 (16)
Hupmobile Cent. 125.....(1928)	FA-62 (6)	FB-59 (6)	FC-60 (6)	FD-42 (6)	FE-58 (6)	None	FG-52 (4)	FH-36 (16)
Hupmobile M8.....(1928-29)	FA-62 (6)	FB-59 (6)	FC-60 (6)	FD-42 (6)	FE-58 (6)	None	FG-52 (4)	FH-36 (16)
Hupmobile Cent. 6.....(1929)	FA-58 (2)	FB-52 (2)	FC-56 (2)	FD-43 (4)	FE-60 (2)	None	FG-52 (4)	FH-15 (15)
Jewett 6-50.....(1925)	FA-64 (1)	FB-51 (1)	FC-52 (1)	FD-44 (1)	FE-52 (1)	None	FG-53 (6)	FH-46 (3)
Jewett New Day 6-40, Cont. 1..(1926)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-53 (6)	FH-28 (20)
Jordan K, L, Cont. 6-S.....(1925)	FA-66 (1)	FB-61 (1)	FC-7 (2)	FD-106 (5) FD-111 (1)	FE-3 (10)	FF-41 (1)	FG-26 (4)	FH-10 (16)
Jordan A, Cont. 9-K.....(1925)	FA-67 (3)	FB-34 (8)	FC-10 (24)	FD-28 (8)	FE-37 (11)	None	FG-26 (4)	FH-11 (16)
Jordan A, Cont. 9-K.....(1926)	FA-67 (3)	FB-34 (8)	FC-10 (24)	FD-28 (8)	FE-37 (11)	None	FG-26 (4)	FH-11 (16)
Jordan J, Cont. 8-S.....(1926)	FA-36 (7)	FB-33 (7)	FC-10 (24)	FD-108 (7)	FE-36 (7)	None	FG-26 (4)	FH-19 (14)
Jordan AA, Cont. 9-K.....(1927)	FA-67 (3)	FB-34 (8)	FC-10 (24)	FD-28 (8)	FE-37 (11)	None	FG-27 (5)	FH-11 (16)
Jordan J, Cont. 8-S.....(1927)	FA-36 (7)	FB-33 (7)	FC-10 (24)	FD-108 (7)	FE-36 (7)	None	FG-27 (5)	FH-19 (14)
Jordan R, Cont. 12-E.....(1927-28)	FA-69 (1)	FB-46 (8)	FC-47 (7)	FD-107 (11)	FE-35 (16)	None	FG-27 (5)	FH-49 (3)
Jordan JJ, Cont. 14-S.....(1928)	FA-36 (7)	FB-33 (7)	FC-10 (24)	FD-108 (7)	FE-36 (7)	None	FG-27 (5)	FH-19 (14)
Jordan JE, Cont. 14-S.....(1928-29)	FA-36 (7)	FB-33 (7)	FC-10 (24)	FD-108 (7)	FE-36 (7)	None	FG-27 (5)	FH-19 (14)
Jordan E, Cont. 16-C.....(1929)	FA-70 (2)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-28 (3)	FH-19 (14)
Jordan G, Cont. 15-S.....(1929)	FA-68 (3)	FB-65 (3)	FC-64 (3)	FD-47 (3)	FE-35 (16)	None	FG-28 (3)	FH-33 (18)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

COOLING SYSTEM—Continued

Car Make and Model	Water Pump: Body Assembly	Water Pump: Shaft	Water Pump: Impeller	Water Pump: Bushings	Water Pump: Packing Nut or Gland (Right Hand)	Water Pump: Packing Nut or Gland (Left Hand)	Radiator Filler Cap	Fan Belt
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Jordan 90, Cont. 15-S.....(1930)	FA-68 (3)	FB-65 (3)	FC-64 (3)	FD-47 (3)	FE-35 (16)	None	FG-28 (3)	FH-33 (18)
Kissel 6-55.....(1925)	FA-65 (3)	FB-64 (3)	FC-62 (3)	FD-48 (3)	FE-51 (3)	FF-42 (3)	FG-3 (13)	FH-4 (15)
Kissel 8-75, Lyc. 3-H.....(1925)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-5 (7)	FF-3 (7)	FG-3 (13)	FH-5 (19)
Kissel 6-55.....(1926)	FA-65 (3)	FB-64 (3)	FC-62 (3)	FD-48 (3)	FE-51 (3)	FF-42 (3)	FG-3 (13)	FH-4 (15)
Kissel 8-75, Lyc. 3-H.....(1926)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-5 (7)	FF-3 (7)	FG-3 (13)	FH-5 (19)
Kissel 6-55.....(1927)	FA-65 (3)	FB-64 (3)	FC-62 (3)	FD-48 3)	FE-51 (3)	FF-42 (3)	FG-3 (13)	FH-4 (15)
Kissel 8-65, Lyc. GS.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-3 (13)	FH-8 (12)
Kissel 8-75, Lyc. 3-H.....(1927)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-10 (60)	FF-3 (7)	FG-3 (13)	FH-5 (19)
Kissel 6-70, Lyc. WS.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-3 (13)	FH-20 (17)
Kissel 8-80, Lyc. GS.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-3 (13)	FH-20 (17)
Kissel 8-80S, Lyc. GS.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-3 (13)	FH-20 (17)
Kissel 8-90, Lyc. HM.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-3 (13)	FH-5 (19)
Kissel 6-73, Lyc. WR.....(1929)	FA-7 (4)	FB-8 (55)	FC-8 (59)	FD-8 (4)	FE-10 (60)	FF-7 (59)	FG-30 (3)	FH-36 (16)
Kissel 8-95, Lyc. GS.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-30 (3)	FH-36 (16)
Kissel 8-126, Lyc. MD.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-30 (3)	FH-52 (14)
La Salle 303.....(1927)	FA-19 (5)	FB-18 (6)	FC-19 (3)	FD-14 (7) FD-115 (7)	FE-14 (5)	None	FG-5 (13)	FH-53 (5)
La Salle 303.....(1928)	FA-19 (5)	FB-18 (6)	FC-19 (3)	FD-14 (7) FD-115 (7)	FE-14 (5)	None	FG-5 (13)	FH-53 (5)
La Salle 328.....(1929)	FA-19 (5)	FB-18 (6)	FC-19 (3)	FD-14 (7) FD-115 (7)	FE-14 (5)	None	FG-5 (13)	FH-53 (5)
Lexington Concord, Ans. F.....(1925)	FA-71 (3)	FB-66 (3)	FC-66 (3)	FD-3 (15)	FE-61 (3)	None	FG-2 (6)	FH-51 (3)
Lexington Minute Man, Ans.M..(1925)	FA-71 (3)	FB-66 (3)	FC-66 (3)	FD-3 (15)	FE-61 (3)	None	FG-9 (64)	FH-51 (3)
Lexington Min. M. 6-50,Ans.M..(1926)	FA-71 (3)	FB-66 (3)	FC-66 (3)	FD-3 (15)	FE-61 (3)	None	FG-9 (64)	FH-51 (3)
Lincoln 8.....(1925)	FA-72 (5)	FB-67 (5)	FC-68 (5)	FD-53 (5)	FE-62 (5)	FF-29 (5)	FG-9 (64)	FH-50 (6)
Lincoln 8.....(1926)	FA-72 (5)	FB-67 (5)	FC-68 (5)	FD-53 (5)	FE-62 (5)	FF-29 (5)	FG-9 (64)	FH-50 (6)
Lincoln 8.....(1927)	FA-72 (5)	FB-67 (5)	FC-68 (5)	FD-53 (5)	FE-62 (5)	FF-29 (5)	FG-9 (64)	FH-50 (6)
Lincoln 8.....(1928)	FA-72 (5)	FB-67 (5)	FC-68 (5)	FD-53 (5)	FE-62 (5)	FF-29 (5)	FG-9 (64)	FH-50 (6)
Lincoln 8.....(1929)	FA-72 (5)	FB-67 (5)	FC-68 (5)	FD-53 (5)	FE-62 (5)	FF-29 (5)	FG-9 (64)	FH-50 (6)
Locomobile Jr. 6.....(1925)	FA-73 (1)	FB-68 (1)	FC-69 (1)	FD-54 (1)	FE-63 (1)	None	FG-11 (7)	FH-54 (1)
Locomobile Jr. 8.....(1925)	FA-74 (2)	FB-69 (3)	FC-70 (3)	FD-55 (3)	FE-64 (3)	None	FG-16 (54)	FH-15 (15)
Locomobile 48.....(1925)	FA-75 (5)	FB-70 (5)	FC-71 (5)	FD-56 (5)	FE-65 (5)	FF-30 (5)	FG-32 (4)	FH-31 (14)
Locomobile 48.....(1926)	FA-75 (5)	FB-70 (5)	FC-71 (5)	FD-56 (5)	FE-65 (5)	FF-30 (5)	FG-32 (4)	FH-31 (14)
Locomobile 90.....(1926)	FA-76 (4)	FB-71 (4)	FC-72 (4)	FD-57 (4)	FE-66 (4)	FF-31 (4)	FG-54 (7)	FH-11 (16)
Locomobile Jr. 8.....(1926)	FA-74 (2)	FB-69 (3)	FC-70 (3)	FD-55 (3)	FE-64 (3)	None	FG-16 (54)	FH-15 (15)
Locomobile 48.....(1927)	FA-75 (5)	FB-70 (5)	FC-71 (5)	FD-56 (5)	FE-65 (5)	FF-30 (5)	FG-32 (4)	FH-31 (14)
Locomobile 8-66.....(1927)	FA-77 (1)	FB-69 (3)	FC-70 (3)	FD-55 (5)	FE-64 (3)	None	FG-54 (7)	FH-15 (15)
Locomobile 8-80, Lyc. HD.....(1927)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-54 (7)	FH-5 (19)
Locomobile 90.....(1927)	FA-76 (4)	FB-71 (4)	FC-72 (4)	FD-57 (4)	FE-66 (4)	FF-31 (4)	FG-54 (7)	FH-11 (16)
Locomobile 48.....(1928)	FA-75 (5)	FB-70 (5)	FC-71 (5)	FD-56 (5)	FE-65 (5)	FF-30 (5)	FG-32 (4)	FH-31 (14)
Locomobile 8-70, Cont. 8-S.....(1928)	FA-36 (7)	FB-33 (7)	FC-10 (24)	FD-108 (7)	FE-36 (7)	None	FG-54 (7)	FH-19 (14)
Locomobile 8-80, Lyc. HD.....(1928)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-54 (7)	FH-5 (19)
Locomobile 90.....(1928)	FA-76 (4)	FB-71 (4)	FC-72 (4)	FD-57 (4)	FE-66 (4)	FF-31 (4)	FG-54 (7)	FH-11 (16)
Locomobile 48.....(1929)	FA-75 (5)	FB-70 (5)	FC-71 (5)	FD-56 (5)	FE-65 (5)	FF-30 (5)	FG-9 (64)	FH-31 (14)
Locomobile 8-80, Lyc. HD.....(1929)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-5 (19)
Locomobile 86, 88, Lyc. HDL...(1929)	FA-5 (15)	FB-5 (15)	FC-5 (12)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-5 (19)
Locomobile 90.....(1929)	FA-76 (4)	FB-71 (4)	FC-72 (4)	FD-57 (4)	FE-66 (4)	FF-31 (4)	FG-9 (64)	FH-11 (16)
Marmon 74.....(1925)	FA-78 (4)	FB-72 (4)	FC-73 (4)	FD-60 (4)	FE-55 (4)	None	FG-29 (4)	FH-31 (14)
Marmon 74.....(1926)	FA-78 (4)	FB-72 (4)	FC-73 (4)	FD-60 (4)	FE-55 (4)	None	FG-29 (4)	FH-31 (14)
Marmon Little.....(1927)	FA-79 (1)	FB-73 (1)	FC-74 (1)	FD-61 (5)	FE-67 (1)	None	FG-31 (4)	FH-56 (6)
Marmon E75.....(1927)	FA-78 (4)	FB-72 (4)	FC-73 (4)	FD-60 (4)	FE-55 (4)	None	FG-29 (4)	FH-31 (14)
Marmon E75.....(1928)	FA-78 (4)	FB-72 (4)	FC-73 (4)	FD-60 (4)	FE-55 (4)	None	FG-29 (4)	FH-31 (14)
Marmon 78.....(1928)	FA-81 (2)	FB-75 (2)	FC-76 (2)	FD-61 (5)	FE-69 (2)	None	FG-31 (4)	FH-56 (6)
Marmon 68.....(1929)	FA-80 (2)	FB-74 (2)	FC-75 (2)	FD-61 (5)	FE-68 (2)	None	FG-14 (15)	FH-19 (14)
Marmon 78.....(1929)	FA-81 (2)	FB-75 (2)	FC-76 (2)	FD-61 (5)	FE-69 (2)	None	FG-31 (4)	FH-56 (6)
Marmon, Roosevelt.....(1929)	FA-80 (2)	FB-74 (2)	FC-75 (2)	FD-61 (5)	FE-68 (2)	None	FG-14 (15)	FH-19 (14)
Maxwell.....(1925)	None	None	None	None	None	None	FG-4 (55)	FH-26 (25)
Moon Series A, Cont. 7-Z.....(1925)	FA-86 (4)	FB-63 (4)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-20 (24)	FH-30 (6)
Moon Series A, Cont. 7-Z.....(1926)	FA-86 (4)	FB-63 (4)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-20 (24)	FH-30 (6)
Moon Serjes A, Cont. 7-Z.....(1927)	FA-86 (4)	FB-63 (4)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-20 (24)	FH-30 (6)
Moon 6-60, Cont. 26-L.....(1927)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-20 (24)	FH-28 (20)
Moon Series A, Cont. 7-Z.....(1928)	FA-86 (4)	FB-63 (4)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	Special	FH-30 (6)
Moon 6-60, Cont. 26-L.....(1928)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	Special	FH-28 (20)
Moon 6-72, Cont. 11-E.....(1928)	FA-85 (7)	FB-77 (3)	FC-78 (3)	FD-107 (11)	FE-35 (16)	None	Special	FH-49 (3)
Moon 8-80, Cont. 15-S.....(1928-29)	FA-68 (3)	FB-65 (3)	FC-64 (3)	FD-47 (3)	FE-35 (16)	None	Special	FH-34 (8)
Moon 6-72, Cont. 11-E.....(1929)	FA-85 (7)	FB-77 (3)	FC-78 (3)	FD-107 (11)	FE-35 (16)	None	Special	FH-49 (3)
Nash Adv. 6.....(1925)	FA-88 (5)	FB-78 (5)	FC-80 (5)	FD-63 (5)	FE-70 (5)	None	FG-1 (34)	FH-59 (5)
Nash Spec. 6.....(1925)	FA-89 (2)	FB-79 (2)	FC-81 (2)	FD-64 (3)	FE-71 (2)	None	FG-1 (34)	FH-47 (1)
Nash Adv. 6.....(1926)	FA-88 (5)	FB-78 (5)	FC-80 (5)	FD-63 (5)	FE-70 (5)	None	FG-1 (34)	FH-59 (5)
Nash Spec. 6.....(1926)	FA-89 (2)	FB-79 (2)	FC-81 (2)	FD-64 (3)	FE-71 (2)	None	FG-1 (34)	FH-5 (19)
Nash Adv. 6.....(1927)	FA-88 (5)	FB-78 (5)	FC-80 (5)	FD-63 (5)	FE-70 (5)	None	FG-1 (34)	FH-59 (5)
Nash Spec. 6.....(1927)	FA-90 (1)	FB-80 (1)	FC-82 (3)	FD-64 (3)	FE-72 (1)	None	FG-1 (34)	FH-52 (14)
Nash Light 6.....(1927)	FA-1 (2)	FB-1 (2)	FC-1 (2)	FD-1 (2) FD-112 (2)	FE-1 (2)	None	FG-1 (34)	FH-5 (19)
Nash Adv. 6.....(1928)	FA-88 (5)	FB-78 (5)	FC-80 (5)	FD-63 (5)	FE-70 (5)	None	FG-55 (4)	FH-59 (5)
Nash Spec. 6-431.....(1928)	FA-87 (2)	FB-82 (2)	FC-82 (3)	FD-65 (2)	FE-49 (2)	None	FG-55 (4)	FH-52 (14)
Nash Std. 6-400.....(1928)	FA-91 (2)	FB-81 (2)	FC-79 (2)	FD-66 (2) FD-122 (2)	FE-73 (2)	None	FG-17 (5)	FH-5 (19)
Nash Adv. 6-460.....(1929)	FA-88 (5)	FB-78 (5)	FC-80 (5)	FD-63 (5)	FE-70 (5)	None	FG-55 (4)	FH-59 (5)
Nash Spec. 430.....(1929)	FA-87 (2)	FB-82 (2)	FC-82 (3)	FD-65 (2)	FE-49 (2)	None	FG-55 (4)	FH-53 (5)
Nash Std. 6-450.....(1929)	FA-91 (2)	FB-81 (2)	FC-79 (2)	FD-66 (2) FD-122 (2)	FE-73 (2)	None	FG-17 (5)	FH-60 (1)
Oakland 6-54.....(1925)	FA-93 (3)	FB-83 (3)	FC-85 (3)	FD-68 (3)	FE-74 (3)	None	FG-1 (34)	FH-5 (19)
Oakland O6.....(1926)	FA-93 (3)	FB-83 (3)	FC-85 (3)	FD-68 (3)	FE-74 (3)	None	FG-1 (34)	FH-5 (19)
Oakland GO-6.....(1927)	FA-93 (3)	FB-83 (3)	FC-85 (3)	FD-68 (3)	FE-74 (3)	None	FG-1 (34)	FH-5 (19)
Oakland AA-6.....(1928)	FA-94 (2)	FB-84 (2)	FC-86 (2)	FD-69 (6) FD-123 (6)	FE-75 (6)	None	FG-34 (3)	FH-36 (16)
Oakland AA-6.....(1929)	FA-94 (2)	FB-84 (2)	FC-86 (2)	FD-69 (6) FD-123 (6)	FE-75 (6)	None	FG-34 (3)	FH-36 (16)
Oldsmobile C30.....(1925)	FA-95 (3)	FB-85 (3)	FC-87 (3)	FD-70 (4)	FE-76 (3)	None	FG-14 (15)	FH-52 (14)
Oldsmobile D30.....(1926)	FA-95 (3)	FB-85 (3)	FC-87 (3)	FD-70 (4)	FE-76 (3)	None	FG-14 (15)	FH-52 (14)
Oldsmobile 30-E.....(1927)	FA-95 (3)	FB-85 (3)	FC-87 (3)	FD-70 (4)	FE-76 (3)	None	FG-14 (15)	FH-52 (14)
Oldsmobile F38.....(1928)	FA-96 (2)	FB-86 (3)	FC-88 (3)	FD-71 (2)	FE-77 (3)	None	FG-35 (3)	FH-52 (14)
Oldsmobile F29.....(1929)	FA-96 (2)	FB-86 (3)	FC-88 (3)	FD-71 (2)	FE-77 (3)	None	FG-35 (3)	FH-52 (14)
Overland 91.....(1925)	None	None	None	None	None	None	FG-16 (54)	FH-55 (2)
Overland 93.....(1925)	FA-97 (4)	FB-87 (5)	FC-89 (6)	FD-72 (4)	FE-78 (13)	None	FG-16 (54)	FH-57 (4)
Overland 91.....(1926)	None	None	None	None	None	None	FG-16 (54)	FH-55 (2)
Overland 93.....(1926)	FA-97 (4)	FB-87 (5)	FC-89 (6)	FD-72 (4)	FE-78 (13)	None	FG-16 (54)	FH-57 (4)
Packard 6 Cyl., 326, 333.....(1925)	FA-100 (7)	FB-89 (7)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-15 (15)
Packard 8 Cyl., 236, 243.....(1925)	FA-100 (7)	FB-89 (7)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-33 (18)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

COOLING SYSTEM—Continued

Car Make and Model	Water Pump: Body Assembly	Water Pump: Shaft	Water Pump: Impeller	Water Pump: Bushings	Water Pump: Packing Nut or Gland (Right Hand)	Water Pump: Packing Nut or Gland (Left Hand)	Radiator Filler Cap	Fan Belt
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Packard 6 Cyl., 326, 333.....(1926)	FA-100 (7)	FB-89 (7)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-15 (15)
Packard 8 Cyl., 236, 243.....(1926)	FA-100 (7)	FB-89 (7)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-33 (18)
Packard 6 Cyl., 426, 433.....(1927)	FA-100 (7)	FB-89 (7)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-15 (15)
Packard 8 Cyl., 336, 343.....(1927)	FA-101 (2)	FB-90 (2)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-33 (18)
Packard 526.....(1928)	FA-100 (7)	FB-89 (7)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-28 (20)
Packard Std. 8, 443.....(1928)	FA-101 (2)	FB-90 (2)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-28 (20)
Packard 533.....(1928)	FA-100 (7)	FB-89 (7)	FC-91 (12)	FD-75 (11)	FE-79 (9)	None	Special	FH-28 (20)
Packard 626.....(1929)	FA-102 (2)	FB-91 (2)	FC-91 (12)	FD-75 (11)	FE-80 (3)	None	Special	FH-34 (8)
Packard 633.....(1929)	FA-102 (2)	FB-91 (2)	FC-91 (12)	FD-75 (11)	FF-80 (3)	None	Special	FH-34 (8)
Packard 640-645.....(1929)	FA-92 (1)	FB-62 (1)	FC-91 (12)	FD-76 (1)	FE-80 (3)	None	Special	FH-34 (8)
Paige 6-70, Cont. 10-A.....(1925-26)	FA-103 (1)	FB-50 (1)	FC-92 (1)	FD-3 (15)	FE-81 (1)	None	FG-53 (6)	FH-3 (12)
Paige 6-72.....(1926)	FA-104 (3)	FB-92 (3)	FC-93 (3)	FD-74 (3)	FE-82 (3)	None	FG-9 (64)	FH-35 (10)
Paige 6-45, Cont. 19-L.....(1927-28)	FA-10 (9)	FB-10 (9)	FC-10 (24)	FD-7 (12)	FE-11 (29)	None	FG-53 (6)	FH-28 (20)
Paige 6-65.....(1927-28)	FA-104 (3)	FB-92 (3)	FC-93 (3)	FD-74 (3)	FE-82 (3)	None	FG-53 (6)	FH-35 (10)
Paige 6-75.....(1927-28)	FA-104 (3)	FB-92 (3)	FC-93 (3)	FD-74 (3)	FE-82 (3)	None	FG-9 (64)	FH-58 (1)
Paige 8-85, Lyc. MD.....(1927-28)	FA-9 (48)	FB-87 (6)	FC-8 (59)	FD-5 (67)	FE-10 (60)	None	FG-53 (6)	FH-50 (6)
Peerless 70.....(1925)	FA-107 (3)	FB-94 (2)	FC-97 (1)	FD-77 (5)	FE-83 (5)	None	FG-16 (64)	FH-7 (2)
Peerless 67.....(1925)	FA-107 (3)	FB-95 (4)	FC-98 (4)	FD-78 (4)	FE-84 (4)	None	FG-9 (64)	FH-62 (4)
Peerless 80, Cont. 8-U.....(1926)	FA-106 (3)	FB-7 (3)	FC-10 (24)	FD-7 (12)	FE-37 (11)	None	FG-16 (64)	FH-61 (4)
Peerless 69.....(1926)	FA-108 (3)	FB-95 (4)	FC-98 (4)	FD-78 (4)	FE-84 (4)	None	FG-9 (64)	FH-62 (4)
Peerless 60, Cont. 10-E.....(1927)	FA-85 (7)	FB-46 (18)	FC-99 (2)	FD-107 (11)	FE-35 (16)	None	FG-16 (64)	FH-33 (18)
Peerless 69.....(1927)	FA-108 (3)	FB-95 (4)	FC-98 (4)	FD-78 (4)	FE-84 (4)	None	FG-9 (64)	FH-62 (4)
Peerless 72.....(1927-28)	FA-107 (3)	FB-94 (2)	FC-99 (2)	FD-77 (5)	FE-83 (5)	None	FG-16 (64)	FH-61 (4)
Peerless 80, Cont. 8-U.....(1927)	FA-106 (3)	FB-7 (3)	FC-10 (24)	FD-7 (12)	FE-37 (11)	None	FG-16 (64)	FH-61 (4)
Peerless 90.....(1927-28)	FA-110 (3)	FB-98 (3)	FC-100 (3)	FD-77 (5)	FE-83 (5)	None	FG-16 (64)	FH-19 (14)
Peerless 60, Cont. 10-E.....(1928)	FA-85 (7)	FB-46 (18)	FC-47 (7)	FD-107 (11)	FE-35 (16)	None	FG-16 (64)	FH-33 (18)
Peerless 69.....(1928)	FA-108 (3)	FB-95 (4)	FC-98 (4)	FD-78 (4)	FE-84 (4)	None	FG-9 (64)	FH-62 (4)
Peerless 80, Cont. 8-U.....(1928)	FA-106 (3)	FB-7 (3)	FC-10 (24)	FD-7 (12)	FE-37 (11)	None	FG-16 (64)	FH-61 (4)
Peerless 91.....(1928)	FA-110 (3)	FB-98 (3)	FC-100 (3)	FD-77 (5)	FE-83 (5)	None	FG-16 (64)	FH-19 (14)
Peerless 61, Cont. 11-E.....(1929)	FA-85 (7)	FB-77 (3)	FC-78 (3)	FD-107 (11)	FE-35 (16)	None	FG-56 (1)	FH-33 (18)
Peerless 81, Cont. 18-C.....(1929)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-51 (8)	FH-20 (17)
Peerless 91.....(1929)	FA-110 (3)	FB-98 (3)	FC-100 (3)	FD-77 (5)	FE-83 (5)	None	FG-51 (8)	FH-19 (14)
Peerless 125, Cont. 12-K.....(1929)	FA-45 (6)	FB-55 (6)	FC-42 (6)	FD-39 (6) FD-109 (6)	FE-44 (6)	FF-40 (6)	FG-57 (1)	FH-64 (1)
Pierce Arrow 80.....(1925)	FA-112 (4)	FB-99 (4)	FC-102 (4)	FD-79 (4)	FE-87 (4)	None	FG-20 (24)	FH-15 (15)
Pierce Arrow 33.....(1926)	FA-113 (3)	FB-100 (3)	FC-103 (3)	FD-80 (3)	FE-88 (3)	None	FG-20 (24)	FH-10 (16)
Pierce Arrow 80.....(1926)	FA-112 (4)	FB-99 (4)	FC-102 (4)	FD-79 (4)	FE-87 (4)	None	FG-20 (24)	FH-15 (15)
Pierce Arrow 36.....(1927)	FA-113 (3)	FB-100 (3)	FC-103 (3)	FD-80 (3)	FE-88 (3)	None	FG-20 (24)	FH-10 (16)
Pierce Arrow 80.....(1927)	FA-112 (4)	FB-99 (4)	FC-102 (4)	FD-79 (4)	FE-87 (4)	None	FG-20 (24)	FH-15 (15)
Pierce Arrow 36.....(1928)	FA-113 (3)	FB-100 (3)	FC-103 (3)	FD-80 (3)	FE-88 (3)	None	FG-20 (24)	FH-37 (15)
Pierce Arrow 81.....(1928)	FA-112 (4)	FB-99 (4)	FC-102 (4)	FD-79 (4)	FE-87 (4)	None	FG-20 (24)	FH-26 (25)
Pierce Arrow 133, 143.....(1929)	FA-114 (1)	FB-101 (1)	FC-104 (1)	FD-81 (1)	FE-89 (1)	None	FG-5 (13)	FH-10 (16)
Plymouth, 4 Cyl.....(1929)	None	None	None	None	None	None	FG-17 (5)	FH-26 (25)
Pontiac 6.....(1926)	FA-115 (1)	FB-102 (3)	FC-105 (2)	FD-69 (6) FD-123 (6)	FE-75 (6)	None	FG-1 (34)	FH-26 (25)
Pontiac 6.....(1927)	FA-116 (2)	FB-102 (3)	FC-105 (2)	FD-69 (6) FD-123 (6)	FE-75 (6)	None	FG-1 (34)	FH-26 (25)
Pontiac 6.....(1928)	FA-116 (2)	FB-102 (3)	FC-106 (1)	FD-69 (6) FD-123 (6)	FE-75 (6)	None	FG-1 (34)	FH-26 (25)
Pontiac Big 6.....(1929)	FA-111 (1)	FB-103 (1)	FC-107 (1)	FD-69 (6) FD-123 (6)	FE-75 (6)	None	FG-34 (3)	FH-29 (4)
Reo T6.....(1925)	FA-117 (2)	FB-104 (2)	FC-108 (2)	FD-82 (2)	FE-90 (2)	FF-32 (2)	FG-36 (4)	FH-33 (18)
Reo T6.....(1926-27)	FA-117 (2)	FB-104 (2)	FC-108 (2)	FD-82 (2)	FE-90 (2)	FF-32 (2)	FG-36 (4)	FH-33 (18)
Reo Flying Cloud.....(1927)	FA-118 (3)	FB-105 (3)	FC-109 (3)	FD-83 (3)	FE-91 (3)	FF-33 (3)	FG-48 (9)	FH-28 (20)
Reo Wolverine, Cont. 15-E.....(1927)	FA-85 (7)	FB-46 (8)	FC-47 (7)	FD-107 (11)	FE-35 (16)	None	FG-58 (4)	FH-33 (18)
Reo Flying Cloud.....(1928)	FA-118 (3)	FB-105 (3)	FC-109 (3)	FD-83 (3)	FE-91 (3)	FF-33 (3)	FG-48 (9)	FH-28 (20)
Reo Wolverine, Cont. 15-E.....(1928)	FA-85 (7)	FB-46 (8)	FC-47 (7)	FD-107 (11)	FE-35 (16)	None	FG-58 (4)	FH-33 (18)
Reo Flying Cloud Master.....(1929)	FA-118 (3)	FB-105 (3)	FC-109 (3)	FD-83 (3)	FE-91 (3)	FF-33 (3)	FG-58 (4)	FH-28 (20)
Reo FlyingCloud Mate, Cont. 16-C(1929)	FA-70 (2)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-58 (4)	FH-33 (18)
Rickenbacker A8.....(1925)	FA-121 (2)	FB-108 (2)	FC-111 (1)	FD-86 (2)	FE-93 (2)	None	FG-16 (64)	FH-37 (15)
Rickenbacker D6.....(1925)	FA-122 (6)	FB-109 (6)	FC-112 (6)	FD-87 (6)	FE-94 (6)	None	FG-16 (64)	FH-37 (15)
Rickenbacker 8-B.....(1926)	FA-121 (2)	FB-108 (2)	FC-112 (6)	FD-86 (2)	FE-93 (2)	None	FG-16 (64)	FH-37 (15)
Rickenbacker 6-E.....(1926)	FA-122 (6)	FB-109 (6)	FC-112 (6)	FD-87 (6)	FE-94 (6)	None	FG-16 (64)	FH-37 (15)
Rickenbacker 6-70.....(1927)	FA-122 (6)	FB-109 (6)	FC-112 (6)	FD-87 (6)	FE-94 (6)	None	FG-16 (64)	FH-37 (15)
Rickenbacker 8-80.....(1927)	FA-122 (6)	FB-109 (6)	FC-112 (6)	FD-87 (6)	FE-94 (6)	None	FG-16 (64)	FH-37 (15)
Rickenbacker 8-90.....(1927)	FA-122 (6)	FB-109 (6)	FC-112 (6)	FD-87 (6)	FE-94 (6)	None	FG-16 (64)	FH-37 (15)
Roamer 4-75-E.....(1925)	FA-123 (2)	FB-110 (2)	FC-113 (2)	FD-88 (2)	FE-95 (2)	FF-35 (2)	FG-9 (64)	FH-13 (5)
Roamer 6-54-E, Cont. 9-N.....(1925)	FA-124 (2)	FB-111 (2)	FC-114 (2)	FD-89 (2)	FE-96 (2)	FF-36 (2)	FG-9 (64)	FH-25 (15)
Roamer 4-75-E.....(1926)	FA-123 (2)	FB-110 (2)	FC-113 (2)	FD-88 (2)	FE-95 (2)	FF-35 (2)	FG-9 (64)	FH-13 (5)
Roamer 6-50, Cont. 7-U.....(1925-26)	FA-2 (7)	FB-2 (7)	FC-2 (7)	FD-2 (7)	FE-2 (7)	None	FG-9 (64)	FH-2 (6)
Roamer 6-54-E, Cont. 9-N.....(1926)	FA-124 (2)	FB-111 (2)	FC-114 (2)	FD-89 (2)	FE-96 (2)	FF-36 (2)	FG-9 (64)	FH-25 (15)
Roamer 8-80, Lyc. 4-HM.....(1926-27)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-18 (13)
Roamer 8-78, Lyc. GT.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-18 (13)
Roamer 8-80, Lyc. 4-HM.....(1927)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-18 (13)
Roamer 8-88, Lyc. 4-H.....(1927)	FA-5 (15)	FB-5 (15)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-26 (25)
Roamer 8-78, Lyc. GT.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-18 (13)
Roamer 8-80, Lyc. 4-HM.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-18 (13)
Roamer 8-88, Lyc. 4-H.....(1928)	FA-5 (15)	FB-5 (15)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-9 (64)	FH-26 (25)
Roamer 8-78, Lyc. GT.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-18 (13)
Roamer 8-80, Lyc. 4-HM.....(1929)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-18 (13)
Roamer 8-88, Lyc. 4-H.....(1929)	FA-5 (15)	FB-5 (15)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-4 (35)	FH-26 (25)
Rollin G.....(1925)	FA-125 (1)	FB-112 (1)	FC-115 (1)	FD-85 (1)	FE-97 (1)	FF-43 (1)	FG-12 (25)	FH-28 (20)
Star F, Cont. W5.....(1925)	FA-48 (6)	FB-44 (6)	FC-44 (6)	FD-34 (20)	FE-11 (29)	None	FG-14 (15)	FH-35 (10)
Star M, Cont. W5.....(1926)	FA-48 (6)	FB-44 (6)	FC-44 (6)	FD-34 (20)	FE-11 (29)	None	FG-14 (15)	FH-35 (10)
Star R, Cont. 14-L.....(1926)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-14 (15)	FH-35 (10)
Star M, Cont. W5.....(1927-28)	FA-48 (6)	FB-44 (6)	FC-44 (6)	FD-34 (20)	FE-11 (29)	None	FG-14 (15)	FH-35 (10)
Star R, Cont. 14-L.....(1927-28)	FA-47 (9)	FB-45 (11)	FC-43 (16)	FD-34 (20)	FE-11 (29)	None	FG-14 (15)	FH-35 (10)
Stearns Knight B, 4 Cyl.....(1925)	FA-109 (2)	FB-113 (2)	FC-116 (2)	FD-90 (2)	FE-98 (2)	None	FG-20 (24)	FH-28 (20)
Stearns Knight C, 6 Cyl.....(1925)	FA-119 (4)	FB-114 (4)	FC-117 (4)	FD-91 (5)	FE-99 (4)	None	FG-20 (24)	FH-28 (20)
Stearns Knight S, 6 Cyl.....(1925)	FA-119 (4)	FB-114 (4)	FC-117 (4)	FD-91 (5)	FE-99 (4)	None	FG-20 (24)	FH-28 (20)
Stearns Knight B, 4 Cyl.....(1926)	FA-109 (2)	FB-113 (2)	FC-116 (2)	FD-90 (2)	FE-98 (2)	None	FG-20 (24)	FH-28 (20)
Stearns Knight C, 75.....(1926)	FA-119 (4)	FB-114 (4)	FC-117 (4)	FD-91 (5)	FE-99 (4)	None	FG-20 (24)	FH-52 (14)
Stearns Knight S, 95.....(1926)	FA-119 (4)	FB-114 (4)	FC-117 (4)	FD-91 (5)	FE-99 (4)	None	FG-20 (24)	FH-52 (14)
Stearns Knight F, 6-85.....(1927)	FA-126 (3)	FB-115 (3)	FC-118 (3)	FD-92 (2)	FE-100 (3)	None	FG-9 (64)	FH-21 (7)
Stearns Knight 8-85.....(1927-28)	FA-127 (2)	FB-116 (3)	FC-119 (3)	FD-93 (3)	FE-101 (3)	None	FG-51 (8)	FH-10 (16)
Stearns Knight F, 6-85.....(1928)	FA-126 (3)	FB-115 (3)	FC-118 (3)	FD-92 (2)	FE-100 (3)	None	FG-9 (64)	FH-52 (14)
Stearns Knight H & J, 8-90.....(1928)	FA-127 (2)	FB-116 (3)	FC-119 (3)	FD-93 (3)	FE-101 (3)	None	FG-51 (8)	FH-18 (13)
Stearns Knight H & J, 8-90.....(1929)	FA-128 (1)	FB-116 (3)	FC-119 (3)	FD-93 (3)	FE-101 (3)	None	Special	FH-18 (13)
Stearns Knight M & N, 6-80.....(1928-29)	FA-126 (3)	FB-115 (3)	FC-118 (3)	FD-91 (5)	FE-100 (3)	None	Special	FH-36 (16)
Stevens Duryea G.....(1925-26)	FA-129 (1)	FB-117 (1)	FC-120 (1)	FD-94 (1)	FE-102 (1)	FF-37 (1)	FG-11 (7)	FH-68 (1)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Digitized by Google

COOLING SYSTEM—Continued

Car Make and Model	Water Pump						Radiator Filler Cap	Fan Belt
	Body Assembly	Shaft	Impeller	Bushings	Packing Nut or Gland (Right Hand)	Packing Nut or Gland (Left Hand)		
Interchangeable Parts Have the Same CHILTON NUMBER in Any One Column								
Studebaker Big 6.....(1925)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-12 (25)	FH-32 (7)
Studebaker Spec. 6.....(1925)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-12 (25)	FH-32 (7)
Studebaker Std. 6.....(1925)	FA-131 (3)	FB-119 (5)	FC-122 (5)	FD-96 (5) FD-124 (5)	FE-104 (5)	FF-44 (4)	FG-12 (25)	FH-69 (3)
Studebaker Big 6.....(1926)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-12 (25)	FH-32 (7)
Studebaker Std. 6.....(1926)	FA-131 (3)	FB-119 (5)	FC-122 (5)	FD-96 (5) FD-124 (5)	FE-104 (5)	FF-44 (4)	FG-12 (25)	FH-69 (3)
Studebaker Spec. 6.....(1926)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-12 (25)	FH-32 (7)
Studebaker Big 6.....(1927)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-12 (25)	FH-32 (7)
Studebaker Spec. 6.....(1927)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-12 (25)	FH-32 (7)
Studebaker Std. 6.....(1927)	FA-131 (3)	FB-119 (5)	FC-122 (5)	FD-96 (5) FD-124 (5)	FE-104 (5)	FF-44 (4)	FG-12 (25)	FH-69 (3)
Studebaker Com. 6.....(1928)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-48 (9)	FH-56 (6)
Studebaker Dict. 6.....(1928)	FA-132 (2)	FB-119 (5)	FC-124 (1)	FD-96 (5) FD-124 (5)	FE-104 (5)	FF-44 (4)	FG-48 (9)	FH-52 (14)
Studebaker Prcs. 8.....(1928)	FA-133 (2)	FB-120 (2)	FC-125 (2)	FD-97 (3) FD-125 (3)	FE-105 (3)	None	FG-60 (2)	FH-36 (16)
Studebaker Dict. 6.....(1929)	FA-132 (2)	FB-119 (5)	FC-122 (5)	FD-96 (5) FD-124 (5)	FE-104 (5)	None	FG-48 (9)	FH-52 (14)
Studebaker Com. 6.....(1929-30)	FA-130 (8)	FB-118 (9)	FC-121 (8)	FD-95 (8)	FE-103 (8)	None	FG-48 (9)	FH-56 (6)
Studebaker Com. 8.....(1929-30)	FA-134 (1)	FB-118 (9)	FC-122 (5)	FD-97 (3) FD-125 (3)	FE-105 (3)	None	FG-48 (9)	FH-56 (6)
Studebaker Prcs. 8.....(1929-30)	FA-133 (2)	FB-120 (2)	FC-125 (2)	FD-97 (3) FD-125 (3)	FE-105 (3)	None	FG-60 (2)	FH-31 (14)
Stutz 695.....(1925)	FA-136 (1)	FB-122 (6)	FC-126 (6)	FD-98 (1)	FE-106 (1)	None	FG-20 (24)	FH-26 (25)
Stutz AA.....(1926)	FA-137 (3)	FB-122 (6)	FC-126 (6)	FD-99 (3)	FE-107 (4)	None	FG-9 (64)	None
Stutz AA.....(1927)	FA-137 (3)	FB-122 (6)	FC-126 (6)	FD-99 (3)	FE-107 (4)	None	FG-9 (64)	None
Stutz BB.....(1928)	FA-137 (3)	FB-122 (6)	FC-126 (6)	FD-99 (3)	FE-107 (4)	None	FG-9 (64)	None
Stutz Series M.....(1929)	FA-138 (1)	FB-122 (6)	FC-126 (6)	FD-10 (3)	FE-107 (4)	None	FG-31 (4)	None
Velie 60.....(1925)	FA-139 (6)	FB-123 (6)	FC-127 (6)	FD-100 (6)	FE-108 (6)	None	FG-9 (64)	FH-46 (3)
Velie 60.....(1926)	FA-139 (6)	FB-123 (6)	FC-127 (6)	FD-100 (6)	FE-108 (6)	None	FG-9 (64)	FH-46 (3)
Velie Spec. 60.....(1927-28)	FA-139 (6)	FB-123 (6)	FC-127 (6)	FD-100 (6)	FE-108 (6)	None	FG-9 (64)	FH-40 (4)
Velie Std. 50.....(1927-28)	FA-4 (2)	FB-4 (2)	FC-4 (2)	FD-4 (2)	FE-4 (2)	FF-2 (2)	FG-9 (64)	FH-4 (15)
Velie 6-66.....(1928)	FA-139 (6)	FB-123 (6)	FC-127 (6)	FD-100 (6)	FE-108 (6)	None	FG-1 (34)	FH-76 (3)
Velie 6-77.....(1928)	FA-139 (6)	FB-123 (6)	FC-127 (6)	FD-100 (6)	FE-108 (6)	None	FG-1 (34)	FH-76 (3)
Velie 8-88, Lyc. 4-HM.....(1928)	FA-9 (48)	FB-8 (55)	FC-8 (59)	FD-5 (67)	FE-10 (60)	FF-7 (59)	FG-1 (34)	FH-8 (12)
Viking.....(1927)	FA-140 (1)	FB-86 (3)	FC-88 (3)	FD-101 (1)	FE-77 (3)	None	FG-35 (3)	FH-5 (19)
Westcott 44, Cont. 8-R.....(1925)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (15)	FE-3 (10)	FF-1 (9)	FG-2 (6)	FH-3 (12)
Westcott 60, Cont. 8-R.....(1925)	FA-3 (11)	FB-3 (8)	FC-3 (11)	FD-3 (15)	FE-3 (10)	FF-1 (9)	FG-2 (6)	FH-3 (12)
Whippet 96, 4 Cyl.....(1927)	FA-97 (4)	FB-87 (6)	FC-89 (6)	FD-72 (4)	FE-78 (13)	None	FG-16 (54)	FH-26 (25)
Whippet 93-A, 6 Cyl.....(1927)	FA-97 (4)	FB-87 (6)	FC-89 (6)	FD-72 (4)	FE-78 (13)	None	FG-16 (54)	FH-52 (14)
Whippet 96, 4 Cyl.....(1928)	FA-98 (2)	FB-88 (4)	FC-89 (6)	FD-73 (4)	FE-78 (13)	None	FG-16 (54)	FH-26 (25)
Whippet 98, 6 Cyl.....(1928)	FA-99 (2)	FB-88 (4)	FC-90 (2)	FD-73 (4)	FE-78 (13)	None	FG-16 (54)	FH-57 (4)
Whippet 96-A.....(1929)	FA-98 (2)	FB-88 (4)	FC-89 (6)	FD-73 (4)	FE-78 (13)	None	FG-16 (54)	FH-26 (25)
Whippet 98-A.....(1929)	FA-99 (2)	FB-88 (4)	FC-90 (2)	FD-73 (4)	FE-78 (13)	None	FG-16 (54)	FH-53 (5)
Wills Ste. Claire 8.....(1925)	FA-146 (2)	FB-127 (2)	FC-131 (2)	FD-104 (2)	FE-112 (2)	FF-45 (2)	FG-9 (64)	None
Wills Ste. Claire 6.....(1925-26)	FA-147 (1)	FB-128 (1)	FC-132 (1)	FD-105 (1)	FE-113 (1)	FF-46 (1)	FG-9 (64)	FH-57 (4)
Wills Ste. Claire 8.....(1926)	FA-146 (2)	FB-127 (2)	FC-131 (2)	FD-104 (2)	FE-112 (2)	FF-45 (2)	FG-9 (64)	None
Willys Knight 66.....(1925)	FA-141 (5)	FB-125 (5)	FC-129 (6)	FD-102 (5)	FE-109 (5)	None	FG-16 (54)	FH-36 (16)
Willys Knight 65.....(1925)	None	None	None	None	None	None	FG-16 (54)	FH-12 (2)
Willys Knight 66.....(1926)	FA-141 (5)	FB-125 (5)	FC-129 (6)	FD-102 (5)	FE-109 (5)	None	FG-16 (54)	FH-36 (16)
Willys Knight 70.....(1926)	FA-142 (5)	FB-124 (5)	FC-130 (4)	FD-103 (5)	FE-78 (13)	None	FG-16 (54)	FH-21 (7)
Willys Knight 66-A.....(1927)	FA-141 (5)	FB-125 (5)	FC-129 (6)	FD-102 (5)	FE-109 (5)	None	FG-16 (54)	FH-36 (16)
Willys Knight 70-A.....(1927)	FA-142 (5)	FB-124 (5)	FC-130 (4)	FD-103 (5)	FE-78 (13)	None	FG-16 (54)	FH-21 (7)
Willys Knight 66-A.....(1928)	FA-141 (5)	FB-125 (5)	FC-129 (6)	FD-102 (5)	FE-109 (5)	None	FG-16 (54)	FH-36 (16)
Willys Knight Std. 6-56.....(1928-29)	FA-142 (5)	FB-124 (5)	FC-130 (4)	FD-103 (5)	FE-78 (13)	None	FG-16 (54)	FH-29 (4)
Willys Knight Spec. 6-70-A.....(1928-29)	FA-142 (5)	FB-124 (5)	FC-130 (4)	FD-103 (5)	FE-78 (13)	None	FG-16 (54)	FH-21 (7)
Willys Knight 66-A.....(1929)	FA-141 (5)	FB-125 (5)	FC-129 (6)	FD-102 (5)	FE-109 (5)	None	FG-16 (54)	FH-71 (1)
Willys Knight 70-B.....(1929)	FA-142 (5)	FB-124 (5)	FC-129 (6)	FD-103 (5)	FE-78 (13)	None	FG-16 (54)	FH-21 (7)

The combination letter-and-figure in the above columns is the CHILTON NUMBER for the respective parts. The figure to the right in italics shows how many times that CHILTON NUMBER appears in that column.

Key to Engine Abbreviations:
Ans.—Ansted.
Cont. or Ct.—Continental.
Lyc.—Lycoming.
Wisc.—Wisconsin.

Digitized by Google

Body Materials and Equipment

Here the Supply House and Body Service Department Can Find the Make of Each of Nine Items in Body Construction of Passenger Car Models from 1925-1930

ABBREVIATIONS USED:

A.S.—American Swiss Co., 1650 Fernwood Ave., Toledo, Ohio.
Art—Art Work Shop, 828 Ferry St., Buffalo, N. Y.
Att.—Atwood Mfg. Co., Rockford, Ill.
Blum.—Sidney Blumenthal & Co., 1 Park Ave., New York, N. Y.
Briggs—Briggs Manufacturing Co., Detroit, Mich.
B. & S.—Briggs & Stratton Corp., Milwaukee, Wis.
Budd—Budd Manufacturing Co., Philadelphia, Pa.
Central—Central Manufacturing Co., Connersville, Ind.
Chase—Chase & Co., L. C., Boston, Mass.
C. & A.—Collins & Aikman, 25 Madison Ave., New York, N. Y.
C.S.—"Common Sense"—Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich.
D. & L.—Douglas & Lomason Co., Detroit, Mich.
Dura—Dura Co., 4500 Detroit Ave., Toledo, Ohio.
Eber.—Eberhard Manufacturing Co., Cleveland, Ohio.
E. & M.—English & Mersick Co., New Haven, Conn.
Ferro—Ferro Stamping & Mfg. Co., Detroit, Mich.
Fisher—Fisher Body Corp., Detroit, Mich.
Glen.—Glenside Woolen Mills, Skaneateles Falls, N. Y.
Greist — Greist Manufacturing Co., New Haven, Conn.
Han. — Hancock Manufacturing Co., Jackson, Mich.
Hayes — Hayes Body Corp., Grand Rapids, Mich.
Heintz — Heintz Mfg. Co., Philadelphia, Pa.
Jarvis — Jarvis Co., W. B., Grand Rapids, Mich.
Keeler — Keeler Brass Co., Grand Rapids, Mich.
Laidlaw—Laidlaw Co., 16 W. 60th St., New York, N. Y.
Limo.—Limousine Body Co., Kalamazoo, Mich.
Motor—Motor Products Corp., Detroit, Mich.
Ohio—Ohio Body Co., Cleveland, Ohio. (Out of business.)
Opt.—Optional.
Pacific—Pacific Mills Upholstery Co.
Par.—Motor Products Corp. (Formerly Parsons.)
Perf.—Perfect Window Regulator Co.
Shep.—Deverau Co. (formerly Shephard Co.), 11831 Charlevoix Ave., Detroit, Mich.
Soss—Soss Mfg. Co., Roselle, N. J.
Sterl. Br.—Sterling Bronze Co., Long Island City, N. Y.
Stewart—Stewart Co., W. F., Flint, Mich.
Tern.—Ternsted Mfg. Co., Detroit, Mich.
Var.—Various Makes.
Wiese—Wiese & Co., Wm., 234 W. 56th St., New York, N. Y.
Wood—W. W. Woodruff & Sons Co., Mt. Carmel, Conn.

Passenger Car Make, Model and Year	Panels	Doors	Upholstery	Locks	Remote Control	Window Regulator	Handles	Hinges	Cowl
Auburn 5-Pass. Sedan *.....1925	Own	Own	Var	Ferro	None	Tern	Keeler	Soss	Own
Auburn Brougham *.....1925	Own	Own	Var	Ferro	None	Tern	Keeler	Soss	Own
Auburn Phaeton *.....1925	Own	Own	Var	D. & L.	None	None	Keeler	Par	Own
Auburn Roadster *.....1925	Own	Own	Var	E.&M.	None	None	Keeler	Par	Own
Auburn 7-Pass. Sedan *.....1925	Own	Own	Var	Ferro	None	Tern	Keeler	Soss	Own
Auburn 5-Pass. Sedan *.....1926	Own	Own	Var	Ferro	None	Tern	Keeler	Soss	Own
Auburn Brougham *.....1926	Own	Own	Var	Ferro	None	Tern	Keeler	Soss	Own
Auburn Phaeton *.....1926	Own	Own	Var	D.&L.	None	None	Keeler	Par	Own
Auburn Roadster *.....1926	Own	Own	Var	D.&L.	None	None	Keeler	Par	Own
Auburn Fabric Coupe *.....1926	Own	Own	Var	Ferro	None	Tern	Keeler	Motor	Own
Auburn 7-Pass. Sedan *.....1926	Own	Own	Var	Ferro	None	Tern	Keeler	Tern	Own
Auburn 5-Pass. Sedan *.....1927	Own	Own	Var	Ferro	None	Tern	Keeler	Att	Own
Auburn Brougham *.....1927	Own	Own	Var	Ferro	None	Tern	Keeler	Att	Own
Auburn Phaeton *.....1927	Own	Own	Var	Ferro	None	None	Keeler	Motor	Own
Auburn Roadster *.....1927	Own	Own	Var	D.&L.	None	None	Keeler	Motor	Own
Auburn Cabriolet *.....1927	Own	Own	Var	Ferro	Ferro	C.S.	Keeler	Soss	Own
Auburn 7-Pass. Sedan *.....1927	Own	Own	Var	D.&L.	None	Dura	Keeler	Motor	Own
Auburn 5-Pass. Sedan *.....1928	Own	Own	Var	Ferro	Ferro	Tern Dura	Keeler	Att	Own
Auburn Brougham *.....1928	Own	Own	Var	Ferro	Ferro	Dura	Keeler	Att	Own
Auburn Phaeton *.....1928	Own	Own	Var	Ferro	None	None	Keeler	Motor	Own
Auburn Roadster *.....1928	Own	Own	Var	Ferro	None	None	Keeler	Motor	Own
Auburn Speedster *.....1928	Own	Own	Var	D.&L.	None	None	Keeler	Motor	Own
Auburn Cabriolet *.....1928	Own	Own	Var	Ferro	Ferro	C.S.	Keeler	Soss	Own
Auburn Victoria Coupe *.....1928	Own	Own	Var	Ferro	Ferro	Dura	Keeler	Att	Own
Auburn Convert. Coupe *.....1928	Own	Own	Var	Ferro	Ferro	C.S.	Keeler	Own	Own
Auburn 7-Pass. Sedan *.....1928	Own	Own	Var	D.&L.	None	Dura	Keeler	Att	Own
Auburn 5-Pass. Sedan *.....1929	Own	Own	Var	Ferro	Ferro	Tern Dura	Keeler	Att	Own
Auburn Brougham *.....1929	Own	Own	Var	Ferro	Ferro	Dura	Keeler	Att	Own
Auburn Phaeton *.....1929	Own	Own	Var	Ferro	None	None	Keeler	Motor	Own
Auburn Speedster *.....1929	Own	Own	Var	Ferro	None	None	Keeler	Motor	Own
Auburn Victoria Coupe *.....1929	Own	Own	Var	Ferro	Ferro	Dura	Keeler	Att	Own
Auburn Cabriolet *.....1929	Own	Own	Var	Ferro	Ferro	Dura	Keeler	Att	Own
Auburn Convert. Coupe *.....1929	Own	Own	Var	Ferro	Ferro	Dura	Keeler	Own	Own
Auburn 7-Pass. Sedan *.....1929	Own	Own	Var	Ferro	Ferro	Dura	Keeler	Att	Own
Buick *o.....1925-30	Own	Own	.....	Tern	None	None	Tern	Tern	Own
Buick *c.....1925-30	Fisher	Fisher	.....	Tern	Tern	Tern	Tern	Tern	Fisher
Chevrolet *o.....1925-30	Fisher	Fisher	Var	Tern	None	None	Tern	Tern	Fisher
Chevrolet *c.....1925-30	Fisher	Fisher	Var	Tern	Tern	Tern	Tern	Tern	Fisher
Chrysler 70 *o.....1925	Fisher	Fisher	.....	Tern	None	None	Tern	Tern	Fisher
Chrysler 70 *c.....1925	Fisher	Fisher	C.&A.	Tern	Tern	Tern	Tern	Tern	Fisher
Chrysler 60 Coupe.....1925	Own	Own	C.&A.	Ferro	Ferro	Tern	Shep	Soss	Own
Chrysler 60 Sedan.....1925	Fisher	Fisher	C.&A.	Tern	Tern	Tern	Tern	Tern	Fisher
Chrysler 58 *o.....1925	Fisher	Fisher	.....	Tern	None	None	Tern	Tern	Fisher
Chrysler 58 *c.....1925	Fisher	Fisher	C.&A.	Tern	Tern	Tern	Tern	Tern	Fisher
Chrysler 80 *o.....1926	Fisher	Fisher	.....	Tern	None	None	Tern	Tern	Fisher
Chrysler 80 *c.....1926	Fisher	Fisher	Wiese	Tern	Tern	Tern	Tern	Tern	Fisher
Chrysler 72 *o.....1926	Fisher	Fisher	.....	Tern	None	None	Tern	Tern	Fisher
Chrysler 72 *c.....1926	Fisher	Fisher	C.&A.	Tern	Tern	Tern	Tern	Tern	Fisher
Chrysler 62 *o.....1926	Own	Own	.....	Ferro	None	None	Shep	Soss	Own
Chrysler 62 *c.....1926	Own	Own	Blum	Ferro	Ferro	Tern	Shep	Soss	Own
Chrysler 52 *o.....1926	Budd	Budd	.....	Ferro	None	None	Shep	Moore	Budd

—All models: *O—All open models: *C—All closed models.

Digitized by Google

BODY MATERIALS AND EQUIPMENT—Continued

Passenger Car Make, Model and Year	Panels	Doors	Upholstery	Locks	Remote Control	Window Regulator	Handles	Hinges	Cowl
Chrysler 52 *c....1926	Budd	Budd	C.&A.	Ferro	Ferro	E&M	Shep	Moore	Budd
Chrysler 80 *o....1927	Own	Own	.....	Tern	None	None	Tern	Tern	Own
Chrysler 80 *c....1927	Own	Own	Glen	Tern	Tern	Tern	Tern	Tern	Own
Chrysler 72 *o....1927	Fisher	Fisher	.....	Tern	None	None	Tern	Tern	Fisher
Chrysler 72 *c....1927	Fisher	Fisher	C.&A.	Tern	Tern	Tern	Tern	Tern	Fisher
Chrysler 62 *o....1927	Own	Own	.....	A.S.	None	None	Jarvis	Soss	Own
Chrysler 62 *c....1927	Own	Own	Blum	A.S.	A.S.	Tern	Jarvis	Soss	Own
Chrysler 58 *o....1927	Briggs	Briggs	.....	A.S.	None	None	Jarvis	Soss	Briggs
Chrysler 58 *c....1927	Briggs	Briggs	Blum	A.S.	A.S.	Dura	Jarvis	Soss	Briggs
Chrysler 80 *o....1928	Briggs	Own	.....	Tern	None	None	Tern	Att	Own
Chrysler 80 *c....1928	Briggs	Own	Weise	Tern	Tern	Tern	Tern	Att	Own
Chrysler 75 *o....1928	Mullin Heintz	Own	.....	A.S.	None	None	Jarvis	Soss	Own
Chrysler 75 *c....1928	Mullin Heintz	Own	Blum	A.S.	A.S.	Tern Dura	Jarvis	Soss	Own
Chrysler 65 *o....1928	Briggs	Briggs	.....	A.S.	None	None	Jarvis	Soss	Briggs
Chrysler 65 *c....1928	Briggs	Briggs	Blum	A.S.	A.S.	Dura	Jarvis	Soss	Briggs
Chrysler 80 *o....1929	Briggs	Own	.....	Tern	None	None	Tern	Att	Own
Chrysler 80 *c....1929	Briggs	Own	Weise	Tern	Tern	Tern	Tern	Att	Own
Chrysler 77 *o....1929	Murray	Own	.....	A.S.	None	None	Jarvis	Att	Own
Chrysler 77 *c....1929	Murray	Own	Glen	A.S.	A.S.	Tern	Jarvis	Att	Own
Chrysler 70 *o....1929	Murray	Murray	.....	A.S.	None	None	Jarvis	Soss	Murray
Chrysler 70 *c....1929	Murray	Murray	Blum	A.S.	A.S.	Tern	Jarvis	Soss	Murray
Chrysler 66 *o....1929	Briggs	Briggs	.....	A.S.	None	None	Jarvis	Soss	Briggs
Chrysler 66 *c....1929	Briggs	Briggs	Blum	A.S.	A.S.	Tern	Jarvis	Soss	Briggs
Cord Sedan....1929	Own	Own	Var	Tern	Tern	Tern	Keeler	Att	Own
Cord Sport Sedan....1929	Own	Own	Var	Tern	Tern	Tern	Keeler	Att	Own
Cord Cabriolet....1929	Own	Own	Var	Tern	Tern	Tern	Keeler	Central	Own
Cord Convertible....1929	Own	Own	Var	Tern	Tern	Tern	Keeler	Central	Own
De Soto *o....1928	Hayes Briggs	Hayes Briggs	.....	A.S.	None	None	Jarvis	Soss	Hayes Briggs
De Soto *c....1928	Hayes Briggs	Hayes Briggs	Blum	A.S.	A.S.	Dura	Jarvis	Soss	Hayes Briggs
De Soto *o....1929	Briggs	Briggs	.....	A.S.	None	None	Jarvis	Soss	Briggs
De Soto *c....1929	Briggs	Briggs	Blum	A.S.	A.S.	Tern	Jarvis	Soss	Briggs
De Soto *o....1930	Budd	Budd	.....	B.&S.	None	None	Jarvis	Att	Budd
De Soto *c....1930	Budd	Budd	Blum	B.&S.	Dura	Dura	Jarvis	Att	Budd
Dodge *o....1925–26	Budd	Budd	.....	E.&M.	None	None	Jarvis	Att	Budd
Dodge *c....1925–26	Budd	Budd	.....	E.&M.	Dura	Dura	Jarvis	Att	Budd
Dodge *c....1927	Budd	Budd	.....	E.&M.	Dura	Dura	Jarvis	Att	Budd
Dodge *c....1928	Budd	Budd	.....	E.&M.	Dura	Dura	Jarvis	Att	Budd
Dodge Victory 6 *c....1928	Budd	Budd	.....	E.&M.	Dura	Dura	Jarvis	Att	Budd
Dodge 6 *o....1928-29	Budd	Budd	.....	Ferro	None	None	Jarvis	Moore	Budd
Dodge 6 *c....1928-29	Budd	Budd	.....	Ferro	Ferro	E.&M.	Jarvis	Moore	Budd
Erskine *c....1927-28-29	Budd	Budd	.....	Budd	Dura	Dura	Dura	Budd	Budd
Gardner *o....1925	Ohio	Ohio	Opt	Ferro	None	None	N.&J.	Soss	Ohio
Gardner *c....1925	Ohio	Ohio	Opt	Ferro	None	Dura	N.&J.	Soss	Ohio
Gardner *o....1926	Ohio	Ohio	Opt	Ferro	None	None	N.&J.	Soss	Ohio
Gardner *c....1926	Ohio	Ohio	Opt	Ferro	Ferro	Dura	N.&J.	Soss	Ohio
Gardner *o....1927	Limo	Limo	Opt	Ferro	None	None	Ferro Tern	Soss	Limo
Gardner *c....1927	Limo	Limo	Opt	Ferro	Ferro	Dura	Ferro Tern	Soss	Limo
Gardner *o....1928–29–30	Centra	Central	Opt	Tern	None	None	Ferro Tern	Soss	Central
Gardner *c....1928–29–30	Centra	Central	Opt	Tern	Tern	Dura	Ferro Tern	Soss	Centra
Graham-Paige *o....1928–30	Briggs Heintz Mullin	Own	.....	Ferro	None	None	Dura	Soss	Briggs
Graham-Paige *c....1928–30	Briggs Heintz Mullin	Own	Chase	Ferro	None	Dura	Dura	Soss	Briggs
Jordan Model A *o....1925–27	Ohio	Ohio	.....	E.&M.	None	None	E.&M.	Eber	Ohio
Jordan Model A *c....1925–27	Ohio	Ohio	Wiese	E.&M.	E.&M.	Per	E.&M.	Eber	Ohio
Jordan Model J *o....1925–27	Budd	Budd	.....	E.&M.	E.&M.	None	E.&M.	Att	Budd
Jordan Model J *c....1925–27	Budd	Budd	Chase	E.&M.	E.&M.	Dura	E.&M.	Att	Budd
Jordan Model R Coupe....1927–28	Murray	Murray	.....	.....	.....	Dura	Greist	.....	Murray
Jordan Model R Sedan....1927–28	Murray	Murray	Wiese	.....	.....	Dura	Greist	.....	Murray
Jordan Model R Salon....1927–28	Ohio	Ohio	.....	Ferro	None	None	Greist	.....	Ohio
Jordan Model R Touring....1927–28	Ohio	Ohio	Wiese	Ferro	Ferro	Dura	Greist	.....	Ohio
Jordan Model JE. *o....1927–28	Murray	Murray	.....	.....	None	None	Greist	.....	Murray
Jordan Model JE *c....1927–28	Murray	Murray	Wiese	.....	.....	Dura	Greist	.....	Murray
Jordan Model T *o....1929–30	Murray	Murray	.....	A.S.	None	None	Dura	.....	Murray
Jordan Model T *c....1929–30	Murray	Murray	Wiese	A.S.	A.S.	B.&S.	Dura	.....	Murray
Jordan Model G *o....1929–30	Murray	Murray	.....	A.S.	None	None	Art	.....	Murray
Jordan Model G *c....1929–30	Murray	Murray	Wiese	A.S.	A.S.	B.&S.	Art	.....	Murray
Jordan Model E *o....1929	Murray	Murray	.....	Dura	None	None	Art	.....	Murray
Jordan Model E *c....1929	Murray	Murray	Pacific	Dura	Art	Art	Art	.....	Murray
Lincoln *o....1926–28	Own	Own	.....	E.&M.	None	None	Wood Sterl Br	Att E.&M.	Own Own
Lincoln *c....1926–28	Own	Own	Laidlaw Weise	E.&M.	Own	Perf Tern	Wood Sterl Br	Att E.&M.	Own .....
Lincoln *o....1929	Own	Own	.....	E.&M.	None	None	Wood Sterl Br	Att	Own
Lincoln *c....1929	Own	Own	Laidlaw Wiese	E.&M.	E.&M.	C.S.	Wood Sterl Br	Att	Own
Marquette *o....1929–30	Own	Own	.....	Tern	None	None	Tern	Tern	Own
Marquette *c....1929–30	Fisher	Fisher	.....	Tern	Tern	Tern	Tern	Tern	Own
Oakland *o....1925–30	Stewart	Stewart	.....	.....	None	None	.....	.....	.....
Oakland *c....1925–30	Fisher	Fisher	.....	Tern	Tern	Tern	Tern	Tern	Fisher
Oldsmobile *o....1925–30	Fisher	Fisher	Var	Tern	None	None	Tern	Tern	Fisher
Oldsmobile *c....1925–30 (*Except Convert. Roadster...1929–30*)	Fisher	Fisher	Var	Tern	Tern	Tern	Tern	Tern	Fisher
Oldsmobile Convertible Roadster.1929–30	Hayes	Hayes	Var	Ferro	Ferro	C.S.	Tern	Att	Own
Packard 6 *o....1925–29	Own	Own	.....	E.&M.	None	None	Tern	Att	Own
Pakard 6 *c. (*Except 4-Pass. Coupe.....1926–28*)	Own	Own	Laidlaw Wiese	E.&M.	E.&M.	C.S.	Tern	Att	Own
Packard 6 Cyl. 4-Pass. Coupe....1926–28	Budd	Budd	.....	Budd	Dura	Dura	Dura	Att	Budd
Packard 8 *o....1925–29	Own	Own	.....	E.&M.	None	None	Tern	Att	Own
Packard 8 (*Except 4-Pass. Coupe....1926–28*)	Own	Own	Laidlaw Wiese	E.&M.	E.&M.	C.S.	Tern	Att	Own
Packard 8 Cyl. 4-Pass. Coupe....1926–28	Budd	Budd	.....	Budd	Dura	Dura	Dura	Att	Budd
Peerless *o....1930	Hayes	Hayes	.....	Tern	None	None	Tern	Att	Hayes
Peerless *c....1930	Hayes	Hayes	Laidlaw C.&A.	Tern	Tern	B.&S.	Tern	Att	Hayes
Pierce-Arrow *o....1925–28	Own	Own	.....	E.&M.	None	None	Sterl Br	Eber	Own
Pierce-Arrow *c....1925–28	Own	Own	Laidlaw Wiese	E.&M.	E.&M.	C.S.	Sterl Br	Eber	Own

*—All models: *O—All open models: *C—All closed models.

Digitized by Google

BODY MATERIALS AND EQUIPMENT—Continued

Passenger Car Make, Model and Year	Panels	Doors	Upholstery	Locks	Remote Control	Window Regulator	Handles	Hinges	Cowl
Pierce-Arrow *o....1929	Murray	Own	.....	Han	None	None	Dura	Att	Own
Pierce-Arrow *c....1929	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 132 2-4 Pass. Coupe....1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 132 5-Pass. Brougham..1930	Budd	Budd	Wiese Laidlaw	Han	Han	Dura	Dura	Budd	Budd
Pierce-Arrow 132 5-Pass. Sedan.....1930	Budd	Budd	Wiese Laidlaw	Han	Han	Dura	Dura	Budd	Budd
Pierce-Arrow 125 2-Pass. Runabout..1930	Murray	Own	.....	Han	None	None	Dura	Att	Own
Pierce-Arrow 125 4-Pass. Phaeton...1930	Murray	Own	.....	Han	None	None	Dura	Att	Own
Pierce-Arrow 125 4-Pass. Sp. Phat'n.1930	Murray	Own	.....	Han	None	None	Dura	Att	Own
Pierce-Arrow 125 2-Pass. Convt. Cp..1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 139 5-Pass. Sedan.....1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 139 5-Pass. Club Sed....1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 139 5-Pass. Club Ber...1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 139 5-Pass. Victoria....1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 139 7-Pass. Sedan.....1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Pierce-Arrow 139 7-Pass. Enc.Dr.Lim.1930	Murray	Own	Wiese Laidlaw	Han	Han	Dura	Dura	Att	Own
Plymouth *o....1928	Hayes Briggs	Hayes Briggs	.....	A.S.	None	None	Jarvis	Soss	Hayes Briggs
Plymouth *c....1928	Hayes Briggs	Hayes Briggs	C.&A.	A.S.	A.S.	Tern Dura	Jarvis	Soss	Hayes Briggs
Plymouth *o....1929	Briggs	Briggs	.....	A.S.	None	None	Jarvis	Soss	Briggs
Plymouth *c....1929	Briggs	Briggs	C.&A.	A.S.	A.S.	Tern	Jarvis	Soss	Briggs
Pontiac *o....1925–30	Stewart	Stewart	.....	.....	None	None	.....	.....	Stewart
Pontiac *c....1925–30	Fisher	Fisher	.....	Tern	Tern	Tern	Tern	Tern	Fisher
Viking *o....1929–30	Fisher	Fisher	.....	Tern	None	None	Tern	Tern	Fisher
Viking *c....1929–30	Fisher	Fisher	.....	Tern	Tern	Tern	Tern	Tern	Fisher

*—All models; *O—All open models; *C—All closed models.

Digitized by Google

REPLACEMENT PARTS SIZES

AND OTHER SERVICE DATA

The next 33 pages contain important dimensional data in service parts. These were selected by taking from the Replacement Parts Section of the last Chilton Catalog and Directory the parts on which size information is most needed. Other service material which the trade found of particular value in the old Yellow Book also is included.

The primary use of most of the following tables is to find the actual size of the part required for replacement in the vehicle being serviced. What car models, and how many, use this same size of any particular part can also be determined.

Used in conjunction with the data on Interchangeability of parts immediately preceding, many of these size tables have merchandising and stock-control value.

The information on Serial Numbers tells you the age of a car from its manufacturer's number. Here also is a guide to the location of the number plate on each model.

You can determine also the year and model of any car so as to use the data in the interchangeable and replacement size tables. In some cases these serial numbers indicate the models made by a particular company, how many of each model were made and how long they were in the market.

INDEX TO PARTS SHOWN IN THESE TABLES

(See also detailed index to all contents pages 7, 9, and index to parts interchangeability on page 200)

	Page
Alcohol Mixtures, Anti-Freeze	341
Anti-Freeze Mixtures	341
Body Parts Makers List	306
Brake Lining Sizes, Motor Truck	331
Brake Lining Sizes, Passenger Car	329
Bulbs, Headlight, Etc., Numbers	337
Bus Model List	328
Bushing Sizes, Piston Pin	314, 318
Capacity of Cooling System	340
Capacity of Crankcase	339
Commercial Car Model List	322
Cooling System Capacity	340
Cowl-Lamp Numbers	337
Crankcase Oil Capacity	339
Cylinder Bore, Engine	314, 318
Engine Parts Size	314, 318
Engines, Bus (Make and Model)	328
Engines, Motor Truck (Make and Model)	322
Engines, Passenger Car (Make and Model)	321
Ethyl-Glycol Mixtures, Anti-Freeze	341
Exhaust Pipe Diameters	338
Glycerine Mixtures, Anti-Freeze	341
Headlight Lamp Number	337
Headlight Lens Diameters	336
Instrument-Board Lamp Numbers	337
Lamp Numbers, Mazda	337
Lens Diameter, Headlight	336
Lining Sizes, Brake	329, 331
Location Manufacturers' Serial Numbers	310
Mazda Lamp Numbers	337
Motor Bus Model List	328
Motor Truck Model List	322
Numbers, Car Serial	310
Numbers, Mazda Lamp	337
Oil Capacity of Crankcase	339
Orphan Car and Truck Parts Sources	342
Parts for Orphan Cars	342
Passenger Car Body Parts List	306
Piston Pin Bushing Sizes	314, 318
Piston Pin Sizes	314, 318
Piston Ring Sizes	314, 318
Piston Sizes	314, 318
Pin Sizes, Piston	314, 318
Prices, Touring Models	310
Ring Sizes, Piston	314, 318
Serial Numbers and Where to Locate	310
Tail-lamp Numbers	337
Truck Model List	322
Valve Sizes, Engine	314, 318

For Manufacturers of Parts See Page 343

Digitized by Google

Serial Numbers—Passenger Cars

The Information Here Enables You to Determine the Year the Automobile Was Built So You Can Fix Its Value for Trade-In Purposes or to Secure Proper Replacement Parts. The Model Designation Also Is Shown and Where You Can Locate the Serial Number Plate.

Prices Given Are for Standard Touring Models

AJAX—Nash Motors, Kenosha, Wis.

Year	Model	Cyls.	Price	Serial Numbers
1925	51	6	$865	1000-

Number or plate on right-hand frame 6 in. ahead of front spring rear bracket
Name changed to Nash Light 6

AMBASSADOR—Yellow Cab Mfg. Co., Chicago, Ill.

Year	Model	Cyls.	Price	Serial Numbers
1925	D1	6	$1695	70051 and up

Number on left front horn. Production suspended
Discontinued

APPERSON—Apperson Brothers Auto Co., Kokomo, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1925	8-25	V8	....	58000-59000
1925	8-25	St. 8	$1995	85000 and up
1925	6-25	6	1650	65000 and up

Number plate on L. H. side of front seat.
Discontinued

AUBURN—Auburn Automobile Co., Auburn, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1925	6-43	6	....	54501-54976
1925	6-66	6	$1395	2555501-2556750
1925	8-63	8	1895	38791-29094
1925	8-88	8	1995	2539200-2540294
1926	6-66	6	1395	2656751-2659977
1926	8-88	8	1695	2640301-2744311
1926	4-44	4	1145	2670001-2670990
1927	4-44	4	....	2744312 upward
1927	6-66	6	....	2759981-2761000
1927	6-66A	6	....	2771501 upward
1927	8-77	8	....	2761001 upward
1927	8-88	8	....	2744312 upward
1928	76	6	....	2878301 upward
1928	88	8	....	2866901 upward
1928	115	8	....	2848001 upward

Number stamped on serial name plate on dash

1929	120	8	....	2948001 and up
1929	8-90	8	$1395	2948001 and up
1929	6-80	6	995	2848001 and up
1930	6-85	6	995	1001 and up
1930	8-95	8	1195	1001 and up

Number stamped on plate under front floor mat at R. H. door

BARLEY—Barley Motor Car Co., Kalamazoo, Mich. (See Roamer Motor Car Co.)

Year	Model	Cyls.	Price	Serial Numbers
1925	Superseded by Roamer 6-50			

Number near light bracket, right hand side rail
Discontinued

BLACKHAWK—Stutz Motor Car Co. of America, Inc., Indianapolis, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1929	L6	6	....	16001 and up
1929	L8	8	....	28001 and up
1930	L6	6	$2535	16001 and up
1930	L8	8	2535	28001 and up

Number on Fedco plate

BUICK—Buick Motor Co., Flint, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925*	Standard	6	$1175	1239259 and up
1925*	Master	6	1395	1211720 and up
1926*	Standard	6	1150	1398244 and up
1926*	Master	6	1295	1412093 and up

Number on left frame at rear

1927*	114½	6	$1225	1638800 and up
1927*	120	6	....	1661435 and up
1927*	128	6	....	1677210 and up

Number on right frame at front
Numbers run according to body style
*Indicates Model. Serial Nos. begin July of preceding year

Year	Model	Cyls.	Price	Serial Numbers
1928	114	6	$1195	1888911 and up
1928	120	6	1495	1911026 and up
1928	128	6	....	1921026

Plate under right front fender

1929	116	6	$1225	2123926-2137873
1929	121	6	....	2151760-2159907
1929	129	6	3990	2166412-2175065

CADILLAC—Cadillac Motor Car Co., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	314	8	$3250	100001 and up
1926	314	8	3450	114284 and up

Number stamped on generator bolt boss and on plate on dash and on crankcase at base of oil filler

1927	314	8	$3450	142040 and up

Number stamped on name plate on dash and on crankcase either just below the fan bracket or to the left of the distributor support

1928	341	8	$3450	300001 and up
1929	341-B	8	3450	320101 and up

Motor number on name plate on left side of dash and crankcase below water inlet

CASE—J. I. Case Thresh. Mach. Co., Racine, Wis.

Year	Model	Cyls.	Price	Serial Numbers
1925	J.I.C.	6	$1885	75011 and up
1925	X	6	1595	41388 and up
1925	Y	6	2225	44444 and up
1926	J.I.C.	6	1885	75011 and up
1926	Y	6	2225	44444 and up

Number on dash and in front cross bar of frame at right side, rear side

CHANDLER—Chandler - Cleveland Motors Corp., Cleveland, Ohio

Year	Model	Cyls.	Price	Serial Numbers
1925	33A	6	$1595	147001-159624
1926	35	6	1490	159624-174000
1926-27*	Big 6	6	1545	174001 and up
1926-27*	Spec. 6	6	1145	77526 and up
1926-27*	Std. 6	6	945	15998 and up

Number stamped on right hand frame rail behind front fender iron
* Beginning August, 1926

1927	Std. 6	6	$945	15998-C30000
1927	Spec. 6	6	1145	77527-80032
1927	Big 6	6	1695	174001-180100
1927	Royal 8	8	2195	E100001-E103000
1928	Spec. 6	6	995	C30001 and up
1928	Big 6	6	1725	18010 and up
1928	Royal 8	8	1995	E103001 and up

Number on frame rail R

1929	65	6	....	C46001 and up
1929	Big 6	6	....	188001 and up
1929	Roy. 75	8	....	1001 and up
1929	Roy. 85	8	....	E-108001 and up

Number stamped on right front side member
Discontinued

CHEVROLET—Chevrolet Motor Co., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	K	4	$525	*F-*K
1926	Superior	4	525	*K-*V
1927	V & X	4	510	*V-*X
1927	Capitol	4	525	*AA
1927	LM	4	490	*LM
1928	National	4	495	AB
1928	Capitol	4	495	LO

Number on plate on left of right side of front seat frame

As Chevrolet cars are numbered by manufacturing zones it is not possible to reproduce the numbers in such a way as to be of use to the dealer

* Where further information is required on a specific car write to the plant where the car was manufactured, addressing your letter to the Chevrolet Motor Co. The numerical prefix in the serial number denotes the plant where the cars are manufactured. These plants are located as follows:

Up to and including 1923	Since 1923
1. Flint, Michigan	1. Flint, Michigan
2. Tarrytown, N. Y.	2. Tarrytown, N. Y.
3. St. Louis, Missouri	3. St. Louis, Mo.
6. Oakland, California	6. Oakland, Cal.
7. Fort Worth, Texas	9. Cincinnati, Ohio
9. Oshawa, Ontario	12. Buffalo, N. Y.
	21. Janesville, Wis.

CHRYSLER—Chrysler Corporation, Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	B	6	$1395	32813 and up
1925	G	6	1395	WY580P and up
1926	G-70	6	1395	WE585E and up
1926	E-80	6	2545	EW000P and up
1926	H-60	6	1075	YR500D and up
1926	I-50	4	750	FW000P and up

Number on plate on front of dash, also on left frame side member at rear spring horn

1927	50	4	$750	FH556D and up
1927	60	6	1075	YD243W and up
1927	70	6	1395	PH679C and up
1927	80	6	2495	EW655L and up
1928	52	4	695	HH738Y and up
1928	62	6	1095	LH448Y and up
1928	72	.	....	CC339Y and up
1928	80	.	....	EP066E and up
1929	65	6	1075	LS400P and up
1929	75	6	1795	CY050P and up
1929	Imp.	6	3095	EP320W and up

Number stamped Fedco System on instrument board

CLEVELAND—Chandler-Cleveland Motors Corp., Cleveland, Ohio

Year	Model	Cyls.	Price	Serial Numbers
1925	43	6	1095	60000-70300
1925	31	6	895	C-2000 to C-3900
1926	43	6	1145	70300-77526
1926	31	6	945	3900-15998

Number stamped on the outside of right hand front frame horn, and to the rear of the front spring bolt
Name changed to Chandler

COLUMBIA—Columbia Motors Co., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	42	6	$1275	12001-14000

Number on front seat bottom
Production limited

CORD—Auburn Automobile Co., Auburn, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1930	.....	8	$3295	2925001
1930	.....	8	3295	.....

CUNNINGHAM—Jas. Cunningham Son & Co., Rochester, N. Y.

Year	Model	Cyls.	Price	Serial Numbers
1925	V-4	8	$6150	.....
1928	V-7	8	6150	.....
1928	V-8	8		.....

Number on left frame member near radiator
Do not use consecutive numbers
No yearly models

1930	V-9	8	....	.....

DAGMAR (CRAWFORD)—M. P. Moller Motor Car Co., Hagerstown, Md.

Year	Model	Cyls.	Price	Serial Numbers
1925	6J	6	$3500	3000 and up
1925	8R, S	6	1785	300 and up

Number on floor boards under coil

Digitized by Google

SERIAL NUMBERS, Passenger Cars—Continued

DAVIS—G. W. Davis Motor Car Co., Richmond, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1925	90	6	$1395	12518-13100
1925	91	6	1695	15124-15268
1926	90	6	1395	13101-13521
1926	91	6	1695	15269-15356
1926	92	6	1395	20000-20168
1926	93	6	1285	25000-25301

Numbers on left side of crankcase

1927*	92	6	$1395	20169-20324
1927*	93	6	1285	25302 to 25492
1927*	94	6	1285	25515-25912
1927	98	8	1795	30101-30186

* Beginning July, 1926

Number stamped on motor name plate

1928	99	8	$1795	30201-30240

Numbers on left side of crankcase
Discontinued

DE SOTO—De Soto Motor Corp. (Div. Chrysler Corp.), Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1929	....	..	$1035	KH255C

DIANA—Moon Motor Car Co., St. Louis, Mo.

Year	Model	Cyls.	Price	Serial Numbers
1925	8	8	....	80001 and up
1926	8	8	....	80001-82500
1927	8	8	....	82501 and up
1928	8	8	$1695	84000 and up

Discontinued

DODGE BROTHERS — Dodge Brothers Corp. (Div. Chrysler Corp.), Detroit, Mich.

Year	Series	Cyls.	Price	Serial Numbers
1925	25 & 26*	4	$875	A232221-A494124
1926	26 & 27*	4	795	A494125 and up

* Beginning July 1

Number on plate on toeboard, also on right frame member back of front spring rear bracket

1927	.....	4	$795	A702243 and up
1927	Senior	6	....	A910000 and up
1929	Senior	..	....	S58996

DUESENBERG—Duesenberg, Inc., Indianapolis, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1925	St. 8	8	$6650	1001 and up

Number on right hand side front dash

duPONT—duPont Motors, Inc., Wilmington, Del.

Year	Model	Cyls.	Price	Serial Numbers
1925	C	6	$2090	1 to 480
1925	D	6	2600	481 and up
1926	E	6	2800	510 and up

Number on dash under cowl
Serial numbers do not run consecutively

1927-29	E	6	$2800	510 and up

Number stamped on R. H. side engine block. Serial under cowl on dash

1929	G	8	$4560	800 and up

Number stamped on L. H. rear spring horn. Also inside of dash

1930	G	8	....	.....

DURANT—Durant Motor Co. of Michigan, Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	A22	4	$810	101573-102324

Number on right side of dash under hood

As Durant cars are numbered by manufacturing zones it is best to obtain serial numbers from Durant Motors, Inc., 1819 Broadway, New York, N. Y.

1929	40	4	....	1001 and up
1929	60	6	....	1001 and up
1929	66	6	....	1001 and up
1929	70	6	....	1001 and up

ELCAR—Elcar Motor Co., Elkhart, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1925	4-55	4	$1095	33001-38199
1925	6-25	6	1295	33001-38199
1925	8-80	8	2265	33001-38199
1926	8-81	8	2265	38200 and up
1926	6-65	6	1295	38200 and up
1926	4-55	4	1095	38200 and up

Number on plate on front of dash and on right rear frame hanger

ERSKINE—Studebaker Corp., South Bend, Ind.

Year	Model	Cyls.	Price	Serial Numbers
1927	50	6	$915	5000001 and up
1928	51	6	835	5025001 and up

ESSEX—Hudson Motor Car Co., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	All	6	$765	177751-337949
1926	All	6	765	337950-442675
1926-27*	Coach	6	795	442676-500000

Serial number on dash
* Beginning July, 1926

1927	Coach	6	$735	500001-610276
1928†	Coach 6	6	735	610276-706270

† Beginning July, 1927

1928		6	....	706270 and up
1928	(Model 1929)	6	....	816865-928658
1929	Coach	6	695	928658 and up
1929	Touring	6	695	928658 and up

FALCON-KNIGHT—Falcon Motors Corp., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1927	10	6	$975	1000-12000
1928	12	6	....	12000 and up

Discontinued

FLINT—Durant Motors, Inc., New York, N. Y.

Year	Model	Cyls.	Price	Serial Numbers
1925*	E-55	6	$1595	8325-16587
1925*	H-40	6	1285	2405-7699
1925*	B-40	6	1285	7700-12476
1926*	E-55	6	1595	16588-18930
1926*	80	6	1595	18931-20102
1926*	B-40	6	1285	12477-15209
1926*	60	6	1285	15210-18775
1926*	Z-18	6	1085†	100-1911
1927*	80	6	1450	20103 and up
1927*	60	6	1260	18776 and up
1927*	Z-18	6	960†	1912 and up

*Indicates Sales Year. Serial Nos. run from Aug. 1 of preceding year to July 31 of sales year
†Coach

Number on plate on dash under hood
Discontinued

FORD—Ford Motor Co., Dearborn, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	T	4	$290	10999901-12990055
1926	T	4	380	12990056 and up

Number stamped on left side cylinder block just above water inlet connection. Car and engine number the same from May 1, 1915

FRANKLIN — Franklin Automobile Co., Syracuse, N. Y.

Year	Model	Cyls.	Price	Serial Numbers
1925	11	6	$2650	151501-158872
1926	11	6	2635	158873-164801
1927	11	6	2635	164801-172001

Number stamped on dash under hood

1928	12	6	$3060	172001-182440
1929	130	6	....	30-183001-30-197260
1929	135	6	....	35-183001-35-197260
1929	137	6	2870	37-183001-37-197260
1930	145	6	2750	45-198000 and up
1930	147	6	2885	47-198000 and up

GARDNER—Gardner Motor Co., Inc., St. Louis, Mo.

Year	Model	Cyls.	Price	Serial Numbers
1925	6-A	6	$1395	32500-34525
1925	8-A	8	1795	32500-34525
1926	6-B	6	1395	34526-41765
1926	8-B	8	1795	34526-41765
1927*	6-B	6	1395	41766 and up
1927*	8-B	8	1795	41766 and up

*Beginning June, 1926

Number under front seat cushion and left side of motor block

1927	90	8	$1995	5DD01
1927	80	8	1395	5DD01
1927	85	8	1695	5DD01
1928	90	8	....	5T.U.-16 and up
1928	85	8	....	5T.F.-64 and up
1928	80	8	....	5S.P.-74 and up
1928	75	8	....	5T.F.-33 and up

Number stamped on instrument board and L. H. of motor block

1928-29	85-95	8	....	GRR-01 and up
1928-29	75	8	....	5-AE-01 and up
1929	130	8	....	GUU-857 and up
1929	125	8	....	GUU-857 and up
1929	120	8	....	GUU-857 and up

Fedco number plate on right hand side of instrument board

1930	150	8	....	SST-827 and up
1930	140	8	....	SST-827 and up
1930	136	6	....	SST-827 and up

Fedco number plate

GRAHAM — Graham-Paige Motors Corp., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1930	127	8	$2295	558001 and up
1930	137	8	2295	508001 and up
1930	Std. 6	6	1015	900001 and up
1930	Spec. 6	6	....	736001 and up
1930	Std. 8	8	....	660001 and up
1930	Spec. 8	8	....	615001 and up

Number stamped on plate on body floor inside right rear door

GRAHAM-PAIGE — Graham-Paige Motors Corp., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1928	610	6	....	800001
1928	614	6	....	700001
1928	619	6	....	600001
1928	629	6	....	550001
1928	835	8	....	503001
1929	612	6	$935	848001 and up
1929	615	6	1195	713001 and up
1929	621	6	1865	608001 and up
1929	827	8	2195	555001 and up
1929	837	8	2195	506001 and up

Number stamped on plate on engine

GRAY—Gray Motors Corp., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	O	4	$595	60737 and up

Number on left side of engine block, rear of water inlet
Discontinued

HERTZ—Yellow Cab Mfg. Co., Chicago, Ill.

Year	Model	Cyls.	Price	Serial Numbers
1926	D1	6	$1495	71986 and up

Number on plate on right side of engine
Discontinued

HUDSON—Hudson Motor Car Co., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	6	6	$1200	562017-672227
1926†	6	6	1250	672228-713809
1926-27*	Coach	6	1195	713810 and up
1926-27*	Bro'm	6	1495	716440 and up
1926-27*	Sedan	6	1595	714674 and up

Number on plate on front of dash
*Beginning July, 1926
†To July, 1926

1927	Coach	6	$1285	750001 and up
1927-28	S 6	6	....	1001-12269
1927-28	O 6	6	....	730399-803569
1929	Coach	6	1095	825415 and up
1929	139" W.B.	6	1850	41384 and up

HUPMOBILE—Hupp Motor Car Corp., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	R	4	$1225	150001 and up
1925	E	8	1795	15000
1926	A-1	6	1325	5000 and up
1926	E-2	8	1945	15001 and up

Number on plate where steering column joins dash

1926	A-2	..	....	15001-35000
1926-27	A-3	..	....	35001-55000
1927	A-4	..	....	55000-65000
1927	A-5	..	....	65001 and up
1926-27	E-2	8	....	15001-25000
1927	E-3	8	....	25001 and up
1927-28	A-6	6	....	75001 and up
1928	M-1	8	....	5001 and up
1929	A-11	6	$1425	130001-150000
1929	M-3	8	1935	8501-18500

Number stamped on plate where steering joins dash

1930	S	6	1135	S-5001
1930	C	8	1785	C-5001
1930	H	8	2190	H-5001
1930	U	8	....	U-5001

Number stamped on plate on right side of dash under hood

JEWETT—Paige-Detroit Motor Car Co., Detroit, Mich.

Year	Model	Cyls.	Price	Serial Numbers
1925	6	6	$1320	102596-313922
1926	109	6	1195	315501 and up

Number under front seat
Name changed to Paige

Digitized by Google

Engine Parts Sizes

Pistons—Pins—Rings—Bushings—Valves

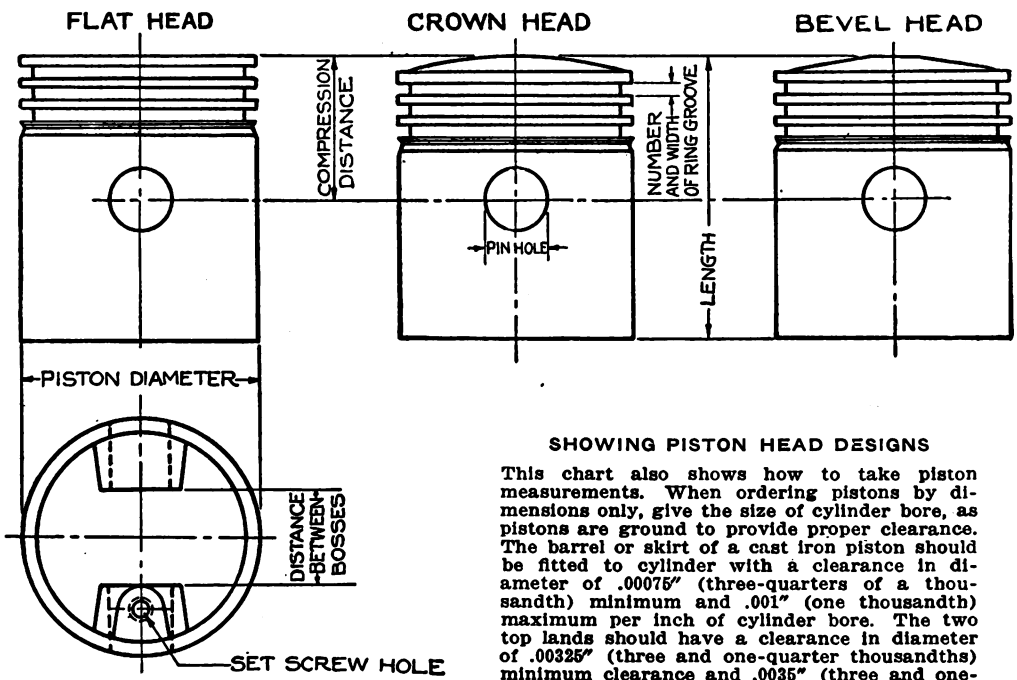
DIRECTIONS: The data which follow cover all makes of cars and stock engines manufactured from 1925 to date.

If you are not sure of the engine make in your vehicle, consult the list under Engines, Passenger Car (make and model) page 321. If a stock engine was used look up that engine in the second part of this table. If the vehicle builder used his own engine see the first part of this table.

As practically all makes of TRUCKS are equipped with stock engines, data for trucks can be found in the second part of this table under Stock Engines. To determine which engine was used in a motor truck or bus refer to the list under Engines, Commercial Vehicle (make and model) on page 322 and the list under Engines, Bus (make and model) on page 328.

For Interchangeability of Engine Parts See Pages 201 to 220

Piston Styles

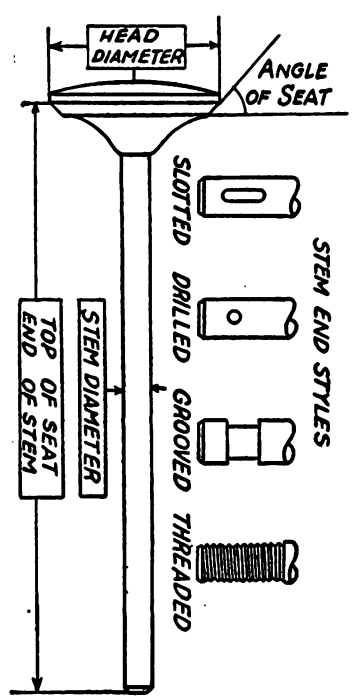


SHOWING PISTON HEAD DESIGNS

This chart also shows how to take piston measurements. When ordering pistons by dimensions only, give the size of cylinder bore, as pistons are ground to provide proper clearance. The barrel or skirt of a cast iron piston should be fitted to cylinder with a clearance in diameter of .00075" (three-quarters of a thousandth) minimum and .001" (one thousandth) maximum per inch of cylinder bore. The two top lands should have a clearance in diameter of .00325" (three and one-quarter thousandths) minimum clearance and .0035" (three and one-half thousandths) maximum per inch diameter of cylinder bore.

These clearances apply to the average replacement piston. For special cast iron, semi-steel, or aluminum alloy pistons, the piston manufacturer's recommendations should be followed.

Valve Dimensions



This chart shows the four styles of valve stem ends referred to in the table and the points from which valve measurements should be taken. Seat angles in the tables are all 45° unless otherwise indicated.

Digitized by Google

Engine Parts Sizes—Passenger Cars Using Own Make of Engine

For Directions, Diagram of Dimensions, Etc., See Page Opposite
For Stock Engine Data See Page 318

For Interchangeability Data on Engine Parts See Pages 201 to 220

Passenger Car Make and Model	YEARS	NO. OF CYLS.	Diameter of Bore	PISTON						PISTON PIN						VALVES				
				No. of Ring Grooves	Ring Groove Width	Length	Pin Center to Top of Piston (Ins.)	Distance Between Bosses	Set Screw Hole	Diameter	Length	Bearing In	BUSHING Used?	BUSHING Outside Diameter	BUSHING Length	HEAD DIAM. Inlet	HEAD DIAM. Exhaust	Stem Diam.	Top of Seat to End of Stem	Style Stem End
Ajax 6	25–26	6	3	3	1/8	3 1/4	1 5/16	.....	5/16–24	.750	2 1/8	Rod	Rod	1 1/4	5/8	1 13/32	1 13/32	.312	4 3/8	G
Apperson V-8	22–25	8	3 1/4	3	1/8	4	2	1 1/16	3/8–24	.937	2 7/8	Rod	Rod	1 1/8	1 1/2	1 5/8*	1 5/8*	.375	7 3/8	G
Apperson St. 8	25–26	8	3 1/8	4	1/8	3 1/2	.....	.....	.....	.750	.....	Pis	None	No	No	1 5/8	1 5/32	.343	5 1/2	G
Apperson 6	25–26	6	3 5/8	3	3/16	3 1/2	1 7/8	1 5/8	5/16–24	.875	2 7/8	Rod	Rod	1 1/8	1 3/8	1 1/2*	1 1/2*	.312	4 1/2	G
Blackhawk L6	29–30	6	3 3/8	4	1/8°	4 17/64	2 27/64	.....	None	.875	2 51/64	F.F.	Rod	1.065	1 1/4	1 31/32	1 31/32	.375	6 11/32	T
Blackhawk L8	29–30	8	3	4	1/8°	3 5/8	2 1/2	.....	None	.875	2 1/2	F.F.	Rod	1.065	1 1/4	1 1/2	1 3/8	.328	6 1/2	G
Buick Master 6	L24-25	6	3 3/8	3	3/16	4 1/4	2 7/8	1 1/8	None	.875	2 5/8	Pis	Pis	1 1/8	31/32	2 1/32	1 25/32	.372	6 1/4	G
Buick Master 6	26	6	3 1/2	3	1/8	4 1/4	2 7/8	.....	None	.875	3 1/8	Pis	Pis	1 1/8	1	1 7/8	1 7/8	.372	5 3/4	G
Buick Std. 6	24–25	6	3	3	1/8	3 5/8	2 1/4	1 1/8	None	.750	2 5/8	Pis	Pis	5/8	5/8	1 19/32	1 19/32	.372	5 3/4	G, D
Buick Std. 6	26	6	3 1/8	3	1/8	3 5/8	2 1/4	.....	None	.750	2 5/8	Pis	Pis	5/8	5/8	1 7/8	1 7/8	.372	5 3/4	D
Buick 115	27	6	3 1/8	3	1/8	3 5/8	2 1/4	.....	None	.750	2 5/8	Pis	Pis	5/8	5/8	1 7/8	1 7/8	.372	5 5/8	G
Buick 120 & 128	27	6	3 1/2	3	1/8	4 1/4	2 7/8	.....	None	.875	3 1/8	Pis	Pis	1 1/8	31/32	1 7/8	1 5/8	.372	6 1/8	G
Buick 115	28	6	3 1/8	3	1/8	3 3/4	2 13/64	1 5/8	None	.750	2 5/8	Pis	Pis	5/8	5/8	1 7/8	1 7/8	.370	5 5/8	G
Buick 120 & 128	28	6	3 1/2	3	1/8°	3 5/8	2 5/8	1 1/4	None	.875	.....	Pis	Pis	1 1/8	31/32	1 7/8	1 5/8	.370	5 1/2	G
Buick 116	29	6	3 5/8	3	1/8°	3 41/64	2.335	1 5/8	None	.875	2 7/32	Pis	Pis	1.064	57/64	1 7/8	1 7/8	.370	.....	G
Buick 121 & 129	29	6	3 5/8	3	1/8°	4 5/64	2 17/64	1 1/4	None	.937	3 5/32	Pis	Pis	1 1/8	1 1/64	1 1/8	1 5/8	.372	.....	G
Buick 40	30	6	3 7/16	3	1/8°	.....	.....	.....	.....	.875	.....	Pis	Pis	1.064	57/64	1 7/8	1 7/8	I-.375	.....	.....
Buick 50, 60	30	6	3 3/4	3	1/8°	.....	.....	.....	.....	.937	.....	Pis	Pis	1.127	1 1/64	1 7/8	1 5/8	.....	.....	.....
Cadillac V-63	25	8	3 1/8	3	3/16	3 3/16	1 1/2	1 1/2	5/16–24	.750	3	Rod	Rod	1	1 3/8	1 5/16	1 5/16	.372	7 1/32	S
Cadillac 314	26	8	3 1/8	3	3/16	3 3/16	2	.....	None	.750	3	Pis	.....	.....	.....	1 5/16	1 5/16	.370	7 3/64	S
Cadillac 314	27	8	3 1/8	.....	.....	2 25/64	.....	1 1/2	.....	.750	2 5/8	Rod	Rod	1	1 5/8	1 53/64	1 45/64	.370	7 3/64	S
Cadillac 341	28	8	3 5/16	3	3/16	3 23/64	1 31/64	1 5/16	5/16–24	.875	3 1/32	Rod	Rod	1	1 5/16	1 1/2*	1 1/2	.371	6 1/32	G
Cadillac 341B	29	8	3 5/16	3	3/16	3 23/64	1 31/64	1 5/16	5/16–24	.875	3 1/32	Rod	Rod	1	1 5/16	1 1/2*	1 1/2	.372	6 17/64 6 13/64	G
Cadillac 353	30	8	3 3/8	4	1/8°	3 23/64	1 31/64	1 5/16	5/16–24	.875	3 1/32	Rod	Rod	1 1/8	1 5/8	1 25/64*	1 5/8	.375	.....	G
Cadillac 452	30	16	3	4	3/16°	3 7/16	1 15/16	1 1/2	5/16–24	.750	2 5/8	Rod	Rod	.939	1 1/4	1 29/64	1 29/64	.339	6 5/32	G
Chandler SS	24–25	6	3 1/2	2	1/8	4 1/2	2 1/2	1 1/4	None	1.093	3 1/8	Rod	Rod	1 5/32	.....	1 37/64*	1 37/64*	.372	6 5/16	D
Chandler 35	26	6	3 1/2	2	1/8	4 1/2	2 1/2	.....	.....	1.093	3 1/8	Rod	Rod	1 5/32	1	1 23/32	1 23/32	.372	6 5/16	D
Chandler 31	27	6	3	3	1/8	3 23/32	2 7/32	1 1/16	.....	.875	2.625	Pis	Pis	1 1/16	29/32	1 1/4	1 1/4	.310	4 5/8	D
Chandler 35	27	6	3 1/2	3	1/8	4 1/2	2 1/2	1 5/16	.....	1.094	3 1/8	Pis	Pis	1 5/32	1	1 5/8	1 5/8	.375	6 5/16	D
Chandler 37	27	8	3 1/4	3	1/8	4	2 3/8	1 1/16	.....	.969	2.780	Pis	Pis	1 5/32	31/32	1 1/2	1 1/2	.375	6 13/32	....
Chandler 43	27	6	3 1/8	3	3/16	4 1/4	2 3/8	1 5/16	.....	.969	2.718	Pis	Pis	1 5/32	15/16	1 5/16	1 5/16	.968	6 11/32	D
Chandler Spec. 6	28	6	3	3	1/8°	3 29/32	2 7/32	1 5/16	3/8–24	.875	2.675	Pis	Pis	1 1/16	25/32	1 1/4	1 1/4	.312	5 3/32	D
Chandler Sp. Invin. 6	28	6	3 1/8	3	1/8°	.....	.....	.....	.....	.875	.....	.....	.....	1 1/16	25/32	1 1/4	1 1/4	.312	5 3/32	.....
Chandler Big 6	28	6	3 3/4	3	1/8°	4 1/2	.....	1 5/16	3/8–24	1.093	3 1/8	Pis	Pis	1 5/32	1	1 5/8	1 5/8	.375	6 5/16	D
Chandler Roy. St. 8	28	8	3 3/8	3	1/8°	4	2 3/8	1 5/16	3/8–24	.968	2.780	Pis	Pis	1 5/32	31/32	1 1/2	1 3/8	.375	6 13/32	D
Chevrolet 490, FB, K, Sup.	20–26	4	3 1/16	3	3/16	3 5/8	1 7/8	1 1/8	.....	.850	3 5/16	Pis	None	No	No	1 1/32	1 1/32	.310	4 5/8	S
Chevrolet Capitol	27	4	3 1/16	3	3/16	3 5/8	.....	1 1/8	None	.850	3 5/16	Pis	None	No	No	1 1/32	1 1/32	.310	4 5/8	S
Chevrolet National	28	4	3 1/16	3	5/32	3 1/16	1 15/16	1 5/32	.....	.850	3 5/16	Pis	None	No	No	1 21/32	1 21/32	.310	4 19/32	S
Chevrolet International	29	6	3 5/16	3	5/32	3 5/16	1 7/8	1 1/16	None	.990	2 7/8	Pis	None	No	No	1 13/32	1 13/32	.310	4 23/32	S
Chevrolet	30	6	3 5/16	3	5/32	.....	.....	.....	.....	1	.....	Pis	Pis	1 1/16	15/16	1 29/64	1 25/64	.312	.....	.....
Chrysler 6	25–e	6	3	3	1/8	3 3/16	2	1 1/16	None	.750	2 5/16	Pis	.....	.....	.....	1 3/8	1 3/8	.340	6 5/16	G
Chrysler G	25-L	6	3 1/8	3	1/8	3 1/16	2	.....	None	.812	2 5/16	Pis	.....	.....	.....	1 9/32	1 9/32	.340	6 1/4	G
Chrysler 70	26	6	3 1/8	3	1/8	3 5/16	2	.....	None	.812	2 5/16	Pis	.....	.....	.....	1 9/32	1 5/32	.340	6 1/4	G
Chrysler 80	26	6	3 1/2	3	1/8	4	2 1/8	.....	None	1	3 1/4	Pis	None	No	No	1 21/32	1 21/32	.372	6 5/16	G
Chrysler 4-58	25–26	4	3 5/8	3	1/8	4 1/4	2	.....	None	.750	3	Pis	.....	.....	.....	1 19/32	1 19/32	.372	5 5/16	D
Chrysler 50, 52	27–28	4	3 5/8	3	1/8	4 1/4	2	1 1/4	None	.750	3	Pis	None	No	No	1 7/16	1 7/16	.372	5 1/16	G
Chrysler 60, 62	27–28	6	3	3	1/8°	3 5/16	2	1 1/16	None	.750	2 5/16	Pis	None	No	No	1 5/16	1 5/16	.372	4 21/32	G
Chrysler 70	27	6	3 1/8	.....	.....	3 5/16	.....	1 5/16	.....	.812	2 5/16	Pis	None	No	No	1 9/32	1 9/32	.343	6 1/4	G
Chrysler 80	27	6	3 1/2	.....	.....	4	.....	1 5/16	.....	1	3 1/16	Pis	None	No	No	1 21/32	1 21/32	.371	6 5/16	G
Chrysler 72, 75	28–29	6	3 1/4	5	5/64°	4 1/8	2 3/16	1 1/16	None	.875	2 7/8	Pis	None	No	No	1 5/16	1 7/16	.340	6 1/4	G
Chrysler Imp. 80	28–30	6	3 3/8	5	5/32°	4 3/16	2 3/16	1 5/16	.....	1	3 1/4	Pis	None	No	No	1 25/32	1 21/32	.371	6 61/64	G
Chrysler 65	29	6	3 1/8	4	9/64°	3 1/16	2	.....	.....	.812	2 5/16	Rod	None	No	No	1 7/16	1 5/16	.340	5 5/16	G
Chrysler Six	30	6	3 1/8	3	11/64°	3 5/16	2	.....	.....	.812	2 5/16	Pis	None	No	No	1 5/16	1 5/16	.340	5 1/4	G
Chrysler 66	30	6	3 1/8	3	9/64°	.....	.....	.....	.....	.812	.....	Pis	None	No	No	1 7/16	1 5/16	.343	.....	.....
Chrysler 70, 77	30	6	3 3/8	5	9/64°	.....	.....	.....	.....	.875	.....	F.F.	Rod	.....	1 1/4	1 7/16	1 7/16	.343	.....	.....
Cleveland 43	24–26	6	3 1/8	2	1/8	4 1/4	2 3/8	.....	None	.968	2 23/32	Rod	Rod	1 5/32	15/16	1 17/32	1 17/32	.340	6 11/32	D
Cleveland 31	25	6	2 7/8	2	1/8	3 19/32	2 1/4	.....	None	.875	2 1/2	Pis	Pis	1 1/16	27/32	1 13/32	1 13/32	.310	5 3/32	D
Cleveland 31	26	6	3	2	1/8	2 27/32	2.22	.....	None	.875	2 1/2	Pis	Pis	1 1/16	29/32	1 13/32	1 13/32	.310	5 3/32	D
Cunningham V-6	25–26	8	3 3/4	3	3/16	4 1/8	2 1/4	1 15/16	None	.937	3 1/4	F.F.	Rod	1 5/16	1 3/4	1 7/16	1 7/16	.437	6 1/8	G
Cunningham All	27–30	8	3 3/4	3	3/16	4 1/8	2 1/4	1 7/8	None	.937	3 15/64	F.F.	Rod	1 5/16	1 3/4	1 7/8	1 7/8	.437	6 1/8	G
De Soto Six	29–30	6	3	3	9/64°	3 1/16	2	1 1/16	.....	.750	2 5/16	Pis	None	No	No	1 5/16	1 5/16	.340	5 5/32	G
De Soto St. 8	30	8	2 7/8	4	5/32°	.....	.....	.....	.....	.750	.....	F.F.	None	No	No	1 9/32	1 9/32	.343	.....	.....
Diana St. 8	25–26	8	3	3	3/16	.....	.....	.....	.....	.860	2 5/16	.....	Rod	1 1/16	1 1/8	1 7/16	1 5/16	.371	5 5/8	D
Diana 8	27	8	3	.....	.....	3 3/4	.....	1 5/16	.....	.860	2 1/2	Rod	Rod	1 1/16	1 1/8	1 7/16	1 5/16	.371	5 5/8	G
Dodge Bros. All	20–26	4	3 7/8	3	3/16	4 3/8	2 1/16	2	3/8–24	.812	3 5/8	Rod	Rod	1	1 1/4	1 23/32	1 23/32	.372	6 15/32	D
Dodge Bros. Std. 6	28	6	3 3/8	4	1/8°	.....	.....	.....	.....	.860	2 7/8	.....	.....	.....	1 1/4	1 1/2	1 3/8	.370	5 23/64	G
Dodge Bros. Senior	28	6	3 1/4	4	1/8°	.....	.....	.....	.....	.860	2 7/8	.....	.....	1 1/16	1 1/4	1 21/32	1 19/32	.371	5 1/16	G
Dodge Bros. Victory 6	28	6	3 3/8	4	1/8°	.....	.....	.....	.....	.860	2 7/8	.....	.....	1 1/16	1 1/4	1 21/32	1 17/32	.371	5 23/64	G
Dodge Bros. Senior	29–30	6	3 3/8	4	1/8°	.....	.....	.....	.....	.860	2 5/8	Pis	.....	1 1/16	1 1/4	1 21/32	1 19/32	.371	5 41/64	G
Dodge Bros. 6	29–30	6	3 3/8	4	1/8°	3 5/16	.....	.....	.....	.860	2 1/8	Pis	.....	1 1/16	1 1/4	1 21/32	1 17/32	.371	.....	G
Dodge Bros. DD	30	6	3 1/8	3	11/64°	3 1/16	2	1 1/16	3/8–24	.812	2 5/8	Pis	None	No	No	1 15/32	1 15/32	.343	5 5/16	G
Dodge Bros. DC	30	8	2 7/8	4	5/32°	3 1/16	2	1 1/16	5/16–24	.812	2 5/8	Pis	None	No	No	1 15/32	1 15/32	.343	5 5/16	G
Dorris 6-80	25	6	4	3	5/16	5 1/4	2 3/4	2 1/16	5/16–24	.218	3 5/8	Rod	Rod	1 3/4	1 1/4	1 7/8	1 7/8	.437	5	D
Duesenberg St. 8	25–26	8	2 7/8	4	1/8°	3 1/2	1 3/4	15/16	None	.750	2 1/2	Pis	None	No	No	1 1/2*	1 7/8*	.187	4 3/8	G
Duesenberg St. 8, J	29–30	8	3 3/4	4	1/8°	4 3/8	2 5/8	1 5/8	None	1.062	3 11/64	F.F.	Rod	1 1/4	1 15/32	1 1/2	1 7/8	.343	5 1/32	G

Digitized by Google

ENGINE PARTS SIZES—Continued

Passenger Car Make and Model	YEARS	NO. OF CYLS.	Diameter of Bore	PISTON						PISTON PIN						VALVES				
				No. of Ring Grooves	Ring Groove Width	Length	Pin Center to Top of Piston (Ins.)	Distance Between Bosses	Set Screw Hole	Diameter	Length	Bearing In	BUSHING Used?	BUSHING Outside Diameter	BUSHING Length	HEAD DIAM. Inlet	HEAD DIAM. Exhaust	Stem Diam.	Top of Seat to End of Stem	Style Stem End
duPont G	29–30	8	3 3/8	4	1/8°	3 15/16	2 5/16	1 7/16	None	.859	2 3/4	F.F.	Rod	1 1/16	1 1/4	1 1/2	1 3/8	.375	5 1/2	G
Durant 4	25–26	4	3 7/8	3	1/8	4 1/8	1 7/8	1 1/4	None	.850	3 7/16	Pis	None	No	No	1 5/8	1 5/8	.310	5 5/8	S
Erskine 53	30	6	3 1/4	4	1/8°	3 7/8	2 11/32	.....	.....	.875	2 7/8	Pis	Pis	1 1/16	15/16	1 5/8	1 1/2	.312	1 1/4	G
Essex 6	24–26	6	2 5/8	3	1/8	3 1/16	1 1/16	1 1/8	None	.750	2 3/32	F.F.	Rod	15/16	15/16	1 1/4	1 1/4	.310	5 1/16	G
Essex Super 6	27	6	2 1/2	.....	.....	3 1/16	.....	1 1/8	.....	.750	2 3/32	F.F.	.....	.....	.....	1 1/4	1 1/4	.309	5 1/32	G
Essex Super 6	28	6	2 1/2	3	1/8	3 1/16	1 1/16	1 1/8	None	.750	2 3/32	F.F.	.....	15/16	15/16	1 3/8	1 3/8	.309	5 1/32	G
Essex Challenger	29	6	2 3/4	3	1/8	3 1/16	1 1/16	.....	None	.750	2 3/32	F.F.	.....	15/16	15/16	1 3/8	1 3/8	.309	5 1/32	G
Essex Super 6	30	6	2 3/4	4	1/8	3 1/16	1 1/16	.....	None	.750	2 1/8	F.F.	.....	15/16	15/16	1 3/8	1 3/8	.308	5 1/16	G
Falcon Knight..10	27	6	2 5/8	.....	.....	3 5/8	.....	5/8	.....	.735	2 5/8	Pis	None	No	No	None	None	.....	.....	.....
Falcon Knight 12	28	6	2 5/8	4	1/8	3 5/8	.....	.....	.....	.796	2 3/4	F.F.	Rod	1	1 1/8	None	None	None	None	None
Ford T	20–26	4	3 3/4	3	1/4	3 5/8	1 5/8	1 5/8	None	.740	1 1/2	Pis	Pis	7/8	1.22	1 15/32	1 15/32	.310	5 5/16	D
Ford T	27	4	3 3/4	3	1/4	3.817	1 49/64	1 3/8	.....	.740	3 1/2	Pis	Pis	7/8	1.22	1 15/32	1 15/32	.310	5 5/16	D
Ford A	28	4	3 7/8	3	.....	3 39/64	.....	.....	.....	1.000	3 5/16	F.F.	Rod	.....	.....	.....	.....	.311	.....	M
Ford A	29–30	4	3 7/8	3	1/8°	3 39/64	.....	.....	.....	1.000	3 1/8	.....	None	No	No	1 45/64	1 45/64	.311	5 1/8	D
Franklin Series 11	25–26	6	3 1/4	4	1/8	3 27/32	2 1/4	.....	None	.875	2 1/8	Pis	None	No	No	1 1/2	1 1/2	.340	4 1/8	D
Franklin Series 11	27	6	3 1/4	.....	.....	3 27/32	1.162	1 1/8	.....	.875	2 5/16	Pis	None	No	No	1 1/2	1 1/2	.340	4 23/32	D
Franklin Series 12	28	6	3 1/4	4	1/8	3 27/32	2 1/4	1 1/8	.....	.875	2 5/16	Pis	None	No	No	1 5/8	1 1/2	.337	4 45/64	G
Franklin 130	29	6	3 1/4	4	1/8	3 27/32	2 1/4	.....	.....	.875	2 5/16	Pis	None	No	No	1 5/8	1 1/2	.338	.....	.....
Franklin 135, 137	29	6	3 1/2	4	1/8	.....	.....	.....	.....	.875	2 5/16	Pis	None	No	No	1 5/8	1 5/8	.372	.....	.....
Franklin 145, 147	30	6	3 1/2	4	1/8	4 7/64	2 19/64	.....	None	.937	3 1/16	Pis	None	No	No	1 27/32	1 31/32	.372	I-6 7/32	G
Graham Std. 6	30	6	3 1/8	3	1/8	3 11/32	2 5/32	.....	None	.812	2 5/16	Pis	None	No	No	1 5/8*	1 13/32	.341	5 1/32	G
Graham Spec. 6	30	6	3 1/4	3	1/8°	3 19/32	2 5/32	.....	None	.812	2 5/16	Pis	None	No	No	1 5/8*	1 13/32	.341	5 1/32	G
Graham Spec. 8	30	8	3 1/4	3	1/8°	3 19/32	2 5/32	.....	None	.812	2 5/16	Pis	None	No	No	1 5/8*	1 15/32	.341	5 1/32	G
Graham Std. 8	30	8	3 1/4	3	1/8°	3 19/32	2 5/32	.....	None	.812	2 5/16	Pis	None	No	No	1 5/8*	1 13/32	.341	5 1/32	G
Graham Cus. 8	30	8	3 3/8	3	1/8°	3 5/8	2 5/8	.....	None	.859	2 3/4	Pis	None	No	No	1 5/8*	1 5/8	.340	5 1/8	G
Graham-Paige 610	28	6	2 7/8	3	1/8°	3 19/32	2 5/32	.....	.....	.812	2 13/32	Pis	None	No	No	1 5/8	1 13/32	.340	5 1/32	G
Graham-Paige 614	28	6	3 1/8	3	1/8°	.....	.....	.....	.....	.812	2 5/8	Pis	None	No	No	1 5/8	1 15/32	.340	5 1/32	G
Graham-Paige 619	28	6	3 1/2	3	1/8	.....	.....	.....	.....	1.000	2 15/16	.....	None	No	No	1 27/32	1 3/4	.340	6 41/64	G
Graham-Paige 629, 621	28–29	6	3 1/2	3	1/8°	4 9/32	2 13/32	.....	.....	1.000	2 5/8	Pis	None	No	No	1 27/32*	1 3/4	.340	6 41/64	G
Graham-Paige 612	29	6	3	3	1/8°	3 19/32	2 5/32	.....	.....	.812	2 5/16	Rod	None	No	No	1 5/8*	1 15/32	.340	.....	G
Graham-Paige 615	29	6	3 1/4	3	1/8°	3 23/32	2 5/32	.....	.....	.812	2 5/16	Pis	None	No	No	1 5/8*	1 15/32	.340	5 1/32	G
Graham-Paige 827, 837	29	8	3 3/8	3	1/8°	3 5/16	2 5/16	.....	.....	.859	2 3/4	Pis	None	No	No	1 5/8*	1 5/8	.371	5 1/16	G
Gray N, O, S	22–26	4	3 5/8	3	5/16	3 5/16	1 5/16	1 1/4	None	.740	3 1/4	Pis	Pis	5/8	1 1/8	1 17/32*	1 17/32*	.309	4 3/4	D
Haynes 60	23–25	6	3 1/2	4	1/8	4 3/8	2	1 7/8	5/16–24	1.125	3 1/8	.....	Rod	.....	.....	1 25/32	1 25/32	.436	6 11/32	G
H. C. S. 6	24–25	6	3 1/2	4	1/8	4 1/32	2 7/16	1 5/8	None	1.000	3 1/32	F.F.	.....	1 1/4	.....	2 1/8	2 1/8	.436	4 1/2	G
Hudson Super 6	22–25	6	3 1/2	3	1/8	4 1/16	2 1/4	1 5/8	None	1.093	2 15/16	F.F.	Rod	1 5/32	1 5/16	1 31/32	1 31/32	.372	6 25/32	G
Hudson Super 6	25–26	6	3 1/2	3	1/8	4 1/16	2 1/4	1 5/8	None	1.093	2 15/16	F.F.	Rod	1 5/16	1 5/16	1 5/8	1 5/8	.372	6 7/8	G
Hudson Super 6	27	6	3 1/2	3	1/8	4 1/16	.....	1 5/8	.....	1.093	2 15/16	F.F.	.....	1.283	1 1/16	1 5/8	1 3/4	.371	6 5/8	G
Hudson Super 6	28–29	6	3 1/2	3	1/8	4 1/16	2 1/4	2 1/4	None	1.093	2 11/16	F.F.	Rod	1.283	1 1/8	2 1/32	1 27/32	.372	E 6 39/64	G
Hudson Great 8	30	8	2 3/4	4	1/8	3 1/16	1 1/16	.....	None	.750	2 1/16	F.F.	Rod	5/8	5/8	1 1/2	1 3/8	.308	5 1/16	G
Hupmobile R-14	L-24-25	4	3 1/4	2	1/8	4	2 13/32	1 5/16	None	.865	2 5/16	Pis	None	No	No	1 49/64	1 5/8	.366	6 1/32	G
Hupmobile E	25	8	2 7/8	1 5/16 2	1/8	3 1/8	1 25/32	.....	None	.750	2 1/2	Pis	None	No	No	1 5/16	1 5/16	.325	7 3/8	T
HupmobileE2,3,Cent.125-8	26–28	8	3	1 5/16 2	1/8	.....	.....	.....	None	.750	.....	Pis	None	No	No	1 5/16	1 5/16	.325	7 3/8	T
Hupmobile A-1	26	6	3 1/8	1 5/16 2	1/8	3 1/8	1 45/64	.....	None	.865	2 5/16	F.F.	.....	No	No	.....	.....	.....	.....	.....
Hupmobile Cent. 6	28	6	3 1/4	1 5/16 3	1/8	.....	.....	.....	.....	.985	2 31/32	.....	.....	No	No	1 3/8	1 3/8	.367	4 39/64	G
Hupmobile Cent. 8	28	8	3	3	1/8°	3 1/4	1 49/64	1 1/2	5/16–18	.875	2 3/4	Rod	Rod	1 1/16	1 1/4	.....	.....	.325	.....	T
Hupmobile A	29	6	3 1/4	3	1/8°	.....	.....	.....	None	.985	2 31/32	Rod	Rod	No	No	1 1/2	1 1/2	.367	.....	.....
Hupmobile M	29	8	3	3	1/8°	.....	.....	.....	None	.875	2 3/4	Rod	Rod	1 1/16	1 1/4	1 15/32	1 11/32	.....	.....	.....
Hupmobile S	30	6	3 1/4	4	1/8°	.....	.....	.....	.....	.984	.....	Rod	None	No	No	1 17/32	1 17/32	.375	.....	.....
Hupmobile C	30	8	3	3	1/8°	.....	.....	.....	.....	.875	.....	Rod	Rod	1 1/16	1 1/4	1 17/32	1 13/32	.328	.....	.....
Hupmobile H, U	30	8	3 1/2	5	.....	.....	.....	.....	.....	.941	.....	.....	.....	.....	.....	1 19/32*	1 19/32	.341	.....	.....
Jewett 23-25	25	6	3 1/4	2 1/16	1/8	3 51/64	2 1/16	.....	None	1.000	2 5/16	Pis	None	No	No	1 5/16	1 5/16	.372	6 1/16	G
Jewett New Day	26	6	2 3/4	3	5/16	3 3/8	1 15/16	1 5/16	.....	.735	2 31/64	Rod	Rod	1	1	1 3/8	1 1/4	.371	5 29/64	D
Jordan A	25–26	8	3	3	5/16	3 3/4	2 1/4	.....	3/8–16	.860	2 17/64	Rod	Rod	.....	.....	1 5/8	1 1/2	.371	6	G
Jordan J	25–26	8	2 7/8	3	5/16	3 5/8	2 1/8	.....	3/8–16	.860	2 17/64	Rod	Rod	.....	.....	1 1/2	1 3/8	.312	6	.....
Kissel 55	23–25e	6	3 5/8	3	5/16	3 5/16	1 5/16	.....	5/16–18	.937	3 1/16	Rod	Rod	.....	.....	1 5/16	1 5/16	.375	5 3/4	G
Kissel 55	L-25-26	6	3 5/8	4	1/8	3 15/16	1 37/32	.....	.....	.875	3	Pis	None	No	No	1 5/16	1 5/16	.375	5 3/4	G
Kissel 75	25–26	8	3 1/16	3	5/16	3 1/2	1 5/16	.....	None	.750	2 7/8	Pis	None	No	No	1 1/2	1 5/16	.341	5 1/2	G
Kissel 6-70, 6-73	28–30	6	2 7/8	3 1/8	1/8°	3 1/2	.....	5/8	None	.750	2 1/2	Pis	None	No	No	1 17/32	1 13/32	.342	5 5/16	.....
Kissel 8-80, 8-80S	28	8	2 7/8	4	1/8	3 1/2	.....	5/8	.....	.750	2 1/2	Pis	None	No	No	1 17/32	1 13/32	.343	5 5/16	G
Kissel 8-90	28	8	3 1/4	3	1/8	3 1/2	.....	1 1/16	.....	.750	2 7/8	Pis	None	No	No	1 5/8	1 15/32	.343	5 1/2	.....
Kissel 8-95	29	8	2 7/8	4	1/8	3 1/2	1 5/8	5/8	.....	.750	2 1/2	Pis	None	No	No	1 17/32	1 7/16	.343	.....	.....
Kissel 8-126	29	8	3 1/4	3	1/8	3 5/16	2 1/16	1 5/16	.....	.875	2 5/16	Pis	None	No	No	1 5/8	1 15/32	.343	.....	.....
Kissel 8-95	30	8	2 7/8	4	1/8°	3 1/2	.....	5/8	None	.875	2 7/16	Pis	None	No	No	1 17/32	1 13/32	.342	.....	G
Kissel 8-126	30	8	3 1/4	4	1/8°	3 5/16	.....	.....	None	.875	2 5/16	Pis	None	No	No	1 5/8*	1 13/32	.343	.....	G
La Salle	27	8	3 1/8	3	5/16	3 13/32	.....	1 1/32	.....	.750	2 1/16	Rod	Rod	1	1 5/16	1 1/32	1 1/32	.372	6 1/32	G
La Salle	28	8	3 1/8	3	5/16	3 23/64	1 31/64	1 1/32	5/16–24	.876	2 29/32	Rod	Rod	1	1 5/16	1 1/32	1 1/32	.372	E 6 9/32	G
La Salle 328	29	8	3 1/4	3	5/16	3 23/64	1 31/64	1 5/16	5/16	.875	3 1/32	Rod	Rod	1	1 5/16	1 1/32*	1 1/32	.372	E 6 13/64	G
La Salle 340	30	8	3 1/4	4	1/8°	3 23/64	1 31/64	1 5/16	5/16–24	.875	3 1/32	Rod	Rod	1 1/16	1 5/16	1 15/32	1 1/16	.375	.....	G
Lincoln 8	25–26	8	3 3/8	3	1/8	3 3/4	2	1 3/4	5/16–24	.875	3 1/8	Rod	Rod	1	1 5/8	1 3/4	1 3/4	.375	7 1/4	G
Lincoln 8	28–30	8	3 1/2	3	1/8	3 3/4	2	1 3/4	None	.875	.....	Rod	Rod	1	1 5/8	1 7/8	1 3/4	.375	7 9/32	G
Locomobile 48	25	6	4 1/2	3	1/4	5 5/16	3 1/16	2 1/2	.....	1.125	3 7/8	Rod	Rod	1 5/16	1 7/8	2 1/8	2 1/8	.437	8 15/32	G
Locomobile 48	26	6	4 1/2	4	1/4	5 1/32	2 5/8	.....	.....	1.125	3 1/4	Rod	Rod	1 5/16	1 7/8	2 1/8	2 1/8	.375	8 15/32	G
Locomobile Jr. 8	25	8	2 5/8	4	1/8	.....	.....	.....	.....	.875	.....	.....	.....	1.31	1 7/8	1 13/32	1 15/32	.309	4 63/64	G
Locomobile Jr. 8	26	8	2 5/8	4	1/8	3	1 19/32	.....	.....	.750	2 11/32	Rod	Rod	5/8	1 1/16	1 13/32	1 13/32	.312	5	G
Locomobile 90	26	6	3 7/8	4	5/16	4 1/2	2 5/8	.....	.....	1.125	3 5/8	Rod	Rod	1 7/16	1 3/4	1 25/32	1 25/32	.375	7 1/8	G
Locomobile 48	27–29	6	4 1/2	3	1/4	5 1/32	2 5/16	2 1/2	5/16–20	1.125	4 1/4	Rod	Rod	1 5/16	1 7/8	2 1/8	2 1/8	.437	8 15/32	G
Locomobile 8-70	27	8	2 7/8	.....	.....	3 5/8	.....	1 5/16	.....	.859	2 13/32	Pis	Pis	1.066	1	1 1/2	1 3/8	.309	5 61/64	G
Locomobile 8-80	27	8	3 1/4	.....	.....	3 3/4	.....	1 5/16	.....	.875	2 5/16	Pis	None	No	No	1 15/32	1 13/32	.341	5 1/32	G
Locomobile 90	27–29	6	3 7/8	3	5/16	4 17/32	2 5/8	2 1/16	5/16–18	1.125	3 5/8	Rod	Rod	1 7/16	1 3/4	1 25/32	1 25/32	.375	7 1/8	G
Marmon 34-74	24–25	6	3 3/4	3	5/16	4 1/16	2 5/16	1 5/16	None	1.187	3 1/4	F.F.	Rod	1 5/8	1 5/8	2	2	.375	5 7/16	G
Marmon 74	26	6	3 3/4	3,4	5/16	4 1/16	2 5/16	1 5/16	.....	1.187	3 1/4	.....	Rod	1 5/8	1 15/16	2	2	.375	5 7/16	G
Marmon Series 75	27–28	6	3 3/4	3	5/16	4 5/16	2 5/16	1 5/16	3/8–16	1.187	3 7/16	Rod	Rod	1 3/8	1 15/16	2	2	.375	5 7/16	G
Marmon, Little	27	8	2 3/4	.....	.....	3 1/4	1 5/16	1 1/16	.....	.735	2 3/8	F.F.	.....	.94	5/8	1 5/8	1	.309	4 5/8	G
Marmon 68	28	8	2 3/4	3	1/8°	3 1/4	1 5/16	1 5/16	None	.750	2 7/16	Pis	None	No	No	1 15/32	1 11/32	.309	4 61/64	G
Marmon 78	28	8	2 5/8	3	1/8°	3 1/4	1 5/16	1 5/16	None	.735	2 3/4	F.F.	Rod	5/8	1	1 25/64	1 11/64	.309	5 5/8	G
Marmon 68, 8-69	29–30	8	2 5/8	3	1/8°	3 1/4	1 5/16	5/8	None	.750	2 7/16	Pis	None	No	No	1 15/32	1 11/32	I.309	4 61/64	G
Marmon 78	29	8	2 5/8	3	1/8°	3 5/16	1 5/16	1 5/16	None	.735	2 1/32	F.F.	Rod	5/8	1	1 25/64	1 11/64	.309	2 7/16	G
Marmon Roosevelt	30	8	2 3/4	3	1/8°	3 9/32	1 31/32	.....	None	.750	2 7/16	Pis	None	No	No	1 15/32	1 11/32	I-.309	4 37/64	G
Marmon Eight 79	30	8	3 5/8	4	1/8°	3 31/32	2 11/32	.....	None	.874	2 11/16	F.F.	Rod	1 1/4	1	1 5/8	1 5/8	I-.341	I-5 59/64	G
Marmon Big Eight	30	8	3 1/4	4	1/8°	3 5/16	2 5/16	.....	None	.874	2 5/16	F.F.	Rod	1.048	1	1 5/8	1 5/8	.343	I-5 7/16	G
Marquette	30	6	3 1/8	3	1/8°	.....	.....	.....	.....	.812	.....	Pis	Pis	1	5/8	1 41/64	1 11/32	I-.372	.....	.....
Maxwell 25C	25	4	3 5/8	3	1/8	4 1/8	2	1 1/8	None	.750	3	Pis	.....	.....	.....	1 5/16	1 5/16	.372	4 1/4	.....

Digitized by Google

ENGINE PARTS SIZES—Continued

Passenger Car Make and Model	YEARS	NO. OF CYLS.	Diameter of Bore	PISTON						PISTON RING						VALVES				
				No. of Ring Grooves	Ring Groove Width	Length	Pin Center to Top of Piston (Ins.)	Distance between Bosses	Set Screw Hole	Diameter	Length	Bearing In	BUSHING Used?	BUSHING Outside Diameter	BUSHING Length	HEAD DIAM. Inlet	HEAD DIAM. Exhaust	Stem Diam.	Top of Seat to End of Stem	Style Stem End
McFarlan TV	24–25	6	4 1/2	3	5/16	6 5/16	3 1/16	2 1/16	None	1.250	3 5/16	F.F.	Rod	1 1/2	2	1 5/16	1 5/16	.375	7 5/16	G
McFarlan TV	26	6	4 1/2	3	5/16	6 5/16	3 1/16	2 1/16	None	1.250	3 5/16	F.F.	Rod	1 1/2	2	1 5/16	1 5/16	.375	8 13/64	G
McFarlan TV 6	27–28	6	4 1/2	3	5/16	6 5/16	3 1/16	2 5/16	None	1.250	3 5/16	F.F.	Rod	1 1/2	2	1 1/2	1 1/2	.375	8 13/64	G
Nash Advanced	24–25	6	3 1/4	4	5/16	4	1 5/8	1 5/8	5/16–16	.937	3		Rod	Rod	1 1/8	1 7/16	1 13/32	1 13/32	.372	5 17/32	G
Nash Advanced	26–28	6	3 1/8	4	5/16	4	1 5/8	1 5/8	5/16–16	.937	3 5/16		Rod	Rod	1 1/8	1 7/16	1 25/32	1 25/32	.372	5 17/32	G
Nash Special	24–25	6	3 1/16	4	1/8	3 15/16	1 1/2	1 9/16	5/16–16	.875	2 1/8		Rod	Rod	1 1/16	1 5/16	1 3/8	1 3/8	.372	5 1/16	G
Nash Special	26	6	3 1/8	4	1/8	3 15/16	1 19/32	1 9/16	5/16–16	.875	2 1/8		Rod	Rod	1 1/16	1 5/16	1 5/16	1 5/16	.372	5 17/32	G
Nash Special	27–28	6	3 1/4	4	1/8	3 15/16	1 5/8	1 5/8	5/16–16	.875	1 5/8		Rod	Rod	1 1/16	1 5/16	1 1/2	1 1/2	.372	5 13/64	G
Nash Std. 6	27–28	6	3 1/8	4	1/16°	3 7/16	1 7/8	1 1/2	5/16–24	.937	2 5/8		Rod	Rod	1 1/8	1 1/4	1 13/32	1 13/32	.310	4 23/32	G
Nash Std. 6	29	6	3 5/8	4	1/8°	3 5/16	2 1/4	1 5/8	5/16–24	.812	2 1/8		Rod	Rod	1	1 1/16	1 13/32	1 13/32	.310	5 5/32	G
Nash Spec. 6	29	6	3 1/4	4	1/8°	3 7/8	2 5/8	1 7/16	.....	.875	2 3/4	F.F.	.....	1 1/16	1 5/16	1 1/2	1 1/2	.372	.....	G
Nash Adv. 6	29	6	3 1/8	4	1/8°	4 1/32	2 15/32	1 1/2	None	.937	2 1/8	F.F.	.....	1 1/8	1 5/8	1 49/64	1 49/64	.372	5 17/32	G
Nash Single 6	30	6	3 1/16	4	1/8°	3 5/16	2 1/4	1 5/8	None	.812	1 1/16	F.F.	Rod	1	1 1/16	1 17/32	1 13/32	.312	.....	.....
Nash Twin Ign. 6	30	6	3 5/8	4	1/8°	3 7/16	2 5/8	.....	None	.875°	.....	F.F.	Rod	1 1/16	1 5/16	1 21/32	1 21/32	.375	.....	.....
Nash Twin Ign. 8	30	8	3 1/4	4	1/8°	3 7/16	2 5/16	1 5/8	.....	.875°	2 7/16	Pis	None	No	No	1 23/32	1 17/32	.375	.....	.....
Oakland 6-54	L24-25	6	2 7/8	3	1/8	3 5/16	1 25/32	1 1/16	None	.730	2 27/64	F.F.	Rod	5/16	1 1/16	1 13/32	1 13/32	.310	4 1/16	G
Oakland 6	26	6	2 7/8	3	1/8	3 5/16	1 25/32	1 1/4	.....	.730	2 27/64		Rod	.939	1 1/16	1 15/32	1 13/32	.310	5 11/64	G
Oakland 6	27	6	2 7/8	3	1/8	3 1/16	1 15/32	1 15/32	5/16–24	.917	2 5/8	Rod	Rod	1 3/8	1 1/16	1 15/32	1 13/32	.310	5 11/64	G
Oakland AA-6	28	6	3 1/4	3	5/16	4	2 5/16	1 13/16	5/16–	1.062	2 5/8	Rod	Rod	1 5/16	1 5/16	1 5/8	1 1/2	.310	5 11/64	G
Oakland AA-6	29	6	3 3/8	3	5/16	3 5/16	2 5/16	1 5/8	5/16–24	1.062	3 1/8	Rod	.....	1.22	1 7/16	1 5/8	1 1/2	.310	5 11/64	G
Oakland 8	30	8	3 7/16	4	1/16°	3 3/4	.....	1 1/2	None	1.062	3 1/4	Rod	Rod	1.22	1 5/16	1 1/2	1 3/8	.341	5 5/16	G
Oldsmobile 30	25	6	2 3/4	3	5/16	3 1/2	1 7/16	1 3/8	5/16–24	.856	2 1/2	Rod	Rod	1	1 5/16	1 1/2	1 1/2	.310	5 1/2	D,
Oldsmobile 6	26	6	2 3/4	2	1/8	3 3/16	1 7/8	1 5/8	.....	.856	2 5/16	Rod	Rod	1	1 5/16	1 1/2	1 1/2	.310	5 1/2	G
Oldsmobile E	27	6	2 7/8	1	5/16															
Oldsmobile F-28	28	6	3 3/16	3	1/8°	3 5/16	.....	1 5/16	.....	.812	1 5/16	Rod	Rod	1	1 1/8	1 7/16	1 7/16	.310	4 5/16	G
Oldsmobile F-29, F-30	29–30	6	3 3/16	3	1/8°	3 7/16	2 5/16	1 5/16	5/16–24	.856	2 1/8	Rod	Rod	1	1 7/16	1 17/32*	1 13/32*	.342	5 5/16	G
Overland 91-2	L23-25	4	3 1/2	3	5/16	3 1/2	1 7/8	5/8	None	.735	3 1/16	Pis	.....	.....	.....	1 1/16	1 1/16	.372	4 1/2	D
Overland 93	25–26	6	3	3	1/8	3 1/2	2	.....	None	.735	2 3/4	Pis	None	No	No	1 1/16	1 1/8	.....	.....	.....
Overland (4) Whippet	28	4	3 1/16	3	1/8	3 3/4	2	1 5/16	None	.735	2 5/16	Pis	None	No	No	1 15/32	1 13/32	.340	6 1/4	.....
Overland (6) Whippet	28	6	3 1/8	3	1/8°	3 3/4	2	1 5/16	5/16–	.797	2 5/16	Rod	Rod	.....	1 1/16	1 15/32	1 13/32	.340	6 1/4	.....
Packard 6	25–26	6	3 1/2	3	1/8	3 5/16	1 7/8	1 1/2	None	.875	3 1/16	F.F.	Rod	1 1/16	1 5/16	1 5/8	1 1/2	.341	7 1/2	.....
Packard St. 8	24–26	8	3 1/8	4	1/8	3 3/8	1 7/8	1 5/8	None	.875	2 59/64	F.F.	Rod	1 1/16	1 5/16	1 5/8	1 1/2	.340	7 1/2	.....
Packard All	28	6,8	3 1/2	4	1/8	.....	2 1/2	.....	.....	.875	.....	F.F	Rod	1 1/16	1 5/16	1 5/8	1 1/2	.340	7 1/2	.....
Packard 6-26, 6-33	29	8	3 5/16	4	1/8	.....	2 1/2	.....	.....	.875	.....	F.F	Rod	1 1/16	1 5/16	1 21/32	1 15/32	.340	.....	.....
Packard 6-40, 6-45	29	8	3 1/2	4	1/8	.....	2 1/2	.....	.....	.875	.....	F.F.	Rod	1 1/16	1 5/16	1 5/16	1 5/16	.340	.....	.....
Packard 7-26, 7-33	30	8	3 5/16	4	1/8	.....	.....	.....	.....	.875	.....	F.F.	Rod	1 1/16	1 5/16	1 21/32	1 15/32	.340	.....	.....
Packard 7-40, 7-45	30	8	3 1/2	4	1/8	.....	.....	.....	.....	.875	.....	F.F.	Rod	1 1/16	1 5/16	1 5/8	1 5/16	.340	.....	.....
Paige 6	25	6	3 3/4	3	5/16	.....	.....	.....	None	1.125	3 1/32		Rod	1 3/8	1 3/4	1 5/16	1 5/16	.372	6 5/16	G
Paige 6-72	26	6	3 1/4	3	5/16	3 11/16	2 5/16	1	5/16–18	1.000	2 5/16		Rod	Rod	1 1/4	1 31/64	1 5/16	1 5/16	.372	6 5/16	G
Peerless Vee 8	24–25	8	3 1/4	3	1/8	3 1/4	1 19/32	1 5/8	None	.875	3		F.F.	Rod	1 1/8	1 3/8	1 3/4*	1 3/4*	.371	6 5/8	S
Peerless 8-69	26	8	3 1/4	3	1/8	3 1/4	1 19/32	1 5/8	None	.875	3		F.F.	Rod	1 1/8	1 3/8	1 5/8	1 5/8	.371	6 5/8	S
Peerless 6-70	24–25e	6	3 1/2	4	1/8	3 1/2	1 7/8	1 3/4	5/16–18	.750	3 1/4		Rod	Rod	1 9/16	1 5/8	1 3/4	1 3/4	.371	6 1/4	S
Peerless 6-72	L-25-26	6	3 1/2	4	1/8	3 1/2	1 7/8	1 3/4	None	1.125	3 1/4		F.F.	Rod	1 9/16	1 5/8	1 1/16	1 1/16	.371	6 1/4	S
Peerless 6-90-91	27–29	6	3 1/2	3	1/8	3 3/4	1 7/8	1 1/2	None	1.125	2 35/64		F.F.	Rod	1 3/8	1 3/8	1 5/16	1 5/16	.371	6 1/4	S
Peerless 8-69	27–28	8	3 1/4	3	1/8	3 1/4	1 19/32	1 5/8	5/16–18	.875	.....		F.F.	Rod	1 1/8	1 3/8	1 3/4	1 3/4	.375	6 5/8	S
Peerless Std. 8	30	8	2 7/8	4	1/8	3 5/8	2 1/8	.....	None	.859	2 1/2		F.F.	Rod	1 1/16	1	1 1/2	1 3/8	.309	5 61/64	Sp.
Peerless, Mas., Cus. 8	30	8	3 3/16	4	1/8°	3 5/16	2 5/16	.....	None	.859	2 7/8		Rod	Rod	1 1/16	1 1/4	1 5/8	1 5/16	.371	.....	Sp
Pierce-Arrow 32-33	21–26	6	4	3	5/16	5 1/4	3 1/4	1 15/16	None	1.062	3 1/2		F.F.	Rod	1.315	1 3/4	1 5/8	1 5/8	.406	8 7/16	S
Pierce-Arrow 80	25–26	6	3 1/2	3	5/16	3 7/8	2 17/64	.....	None	.875	3 1/16		F.F.	Rod	1 1/16	1 1/2	1 7/8	1 5/8	.371	7	G
Pierce-Arrow 36	27–28	6	4	3	5/16	5 1/2	.....	1.939	.....	1.062	3.515		F.F.	.....	1 5/16	1 5/16	1 25/32	1 15/32	.406	8 7/16	S
Pierce-Arrow 80	27	6	3 1/2	3	5/16	3 1/8	.....	1 1/16	.....	.875	3 1/16		F.F.	.....	1 1/16	1 1/2	1 7/8	1 5/8	.371	7 1/32	G
Pierce-Arrow 81	28	6	3 1/2	3	5/16	.....	.....	.....	.....	1.000	.....		F.F.	.....	.....	.....	1 3/4	1 1/2	.371	.....	G
Pierce-Arrow 133, 143	29	8	3 1/2	4	1/8°	4 1/2	2 15/32	1 1/16	.....	.937	3 1/16	Pis	None	No	No	1 21/32	1 5/16	.371	.....	.....
Pierce-Arrow 132	30	8	3 3/8	4	1/8°	4 1/4	2.403	.....	None	.937	2 5/16	Pis	None	No	No	1 21/32	1 5/16	I-.372	.....	G
Pierce-Arrow 125-139	30	8	3 1/2	4	5/16°	4 1/4	2.403	.....	None	.937	3 1/16	.....	.....	.....	.....	1 21/32	1 5/16	I-.372	.....	G
Pierce-Arrow 126	30	8	3 1/2	4	1/8°	4 1/4	2.403	.....	None	.937	3 1/16	.....	.....	.....	.....	1 11/32	1 5/16	E-.371	.....	G
Plymouth	29–30	4	3 5/8	3	1/8	4 1/8	2	1 1/8	.....	.750	3	Pis	None	No	No	1 3/4	1 7/16	.372	5 1/2	D
Pontiac 6	26	6	3 1/4	3	5/16	4 1/2	2 5/16	.....	5/16–24	1.062	3	Rod	Rod	1 7/32	1 5/16	1 11/32	1 11/32	.310	4 17/64	G
Pontiac 6	27–28	6	3 1/4	3	5/16	4 1/2	2 1/16	1 3/4	5/16–24	1.062	2 15/16	Rod	Rod	1 7/32	1 5/16	1 11/32	1 11/32	.310	4 17/64	G
Pontiac Big 6	29	6	3 5/16	3	5/16	3 5/16	2 1/16	1 5/8	5/16–24	1.062	3 1/16	Rod	Rod	1.22	1 1/16	1 15/32	1 11/32	.310	4 17/64	G
Pontiac 6-30	30	6	3 5/16	3	5/16	3.91	2 1/4	1 5/8	None	1.062	3 1/16	Rod	Rod	1.22	1 1/16	1 13/32	1 11/32	.311	3 7/8	G
Reo T-6	20–26	6	3 5/16	3	5/16	4	2 1/4	1 5/16	1/4-Dr.	.985	2 7/8	Rod	Rod	1 5/32	1 13/32	2 1/4*	1 31/32	I-.437	I-4 1/8	I-S
																		E-.375	E-6	E-D
Reo C, 20, 25	28–30	6	3 3/4	4	1/16°	.....	.....	.....	.....	.985	.....	.....	None	No	No	1 5/16	1 5/16	.342	5 3/4	G
Rickenbacker D & E	25–26	6	3 1/4	3,4	1/8	4 1/16	1 15/16	1	None	1.000	2 5/16	Pis	Pis	1 5/16	39/32	1 5/8	1 5/8	.372	5 17/64	D, D
Rickenbacker 8	24–25	8	3 1/16	4	1/8	3 7/8	1 13/32	1 3/8	5/16–18	1.000	2 5/16	Rod	Rod	1 5/16	.....	1 5/8	1 5/8	.372	5 17/64	D
Rickenbacker B-8	26	8	3 1/4	4	1/8	4 1/16	1 5/16	.....	None	1.000	2 5/16	Pis	Pis	1 5/16	1	1 5/8	1 5/8	.372	5 17/64	D
Rollin 4	24–25	4	3 1/4	4	1/8	4 1/4	2 1/16	1 15/16	None	.859	2 1/16	F.F.	None	No	No	1 1/2	1 1/2	.343	6	D
Rolls Royce N. P.	27–30	6	4 1/4	5	.....	4.650	.....	1.805	.....	1.000	4	Pis	.....	.....	.....	.....	.....	.....	.....	.....
Rolls Royce Si. Gh	27–30	6	4 1/2	6	.....	.....	.....	.....	.....	1.000	.....	Pis	.....	.....	.....	.....	.....	.....	.....	.....
Roosevelt	29	8	2 3/4	3	1/16°	3 5/16	1 15/32	5/16	None	.750	2 7/16	Pis	None	No	No	1 15/32	1 11/32	.308	.....	G
Star 4	25–26	4	3 1/8	3	1/8	3 3/16	1 5/16	1 3/8	None	.859	2 5/16	Rod	Rod	1 1/16	1 5/16	1 1/2	1 1/2	.372	5 17/64	D
Star 6	25–26	6	2 3/4	3	5/16	3 3/8	1 5/16	1 1/8	5/16–18	.734	2 5/16	Rod	Rod	5/16	1 5/16	1 3/8	1 1/4	.372	4 21/32	D
Stearns-Knight B	25–26	4	3 3/4	4	5/16	4 15/32	2 19/32	.....	.....	.984	3 3/8	.....	.....	.....	1 13/32	1 13/32	Sl.	Sl.	Sl.	Sl.	Sl
Stearns-Knight 6, B	24–25	6	3 1/4	3	5/16	3 7/16	1 5/16	1 1/4	None	.968	3 1/32	F.F.	.....	.....	.....	Sl.	Sl.	Sl.	Sl.	Sl.
Stearns-Knight C, 75	25–26	6	3 1/4	4	1/8	4 1/32	2 1/16	1 1/4	None	.984	2 7/16	Pis	.....	1 13/32	29/32	Sl.	Sl.	Sl.	Sl.	Sl.
Stearns-Knight S, 95	25–26	6	3 1/2	4	1/8	4 5/16	2 1/32	.....	None	.984	3 1/16	Pis	.....	1 13/32	1 1/32	Sl.	Sl.	Sl.	Sl.	Sl.
Stearns-Knight F6-85	27–28	6	3 1/2	4	1/16°	4 5/32	2 5/16	1 1/4	None	.968	3 1/16	Pis	Pis	1 13/32	1 1/32	N	N	N	N	N
Stearns-Knight G8-85H-J	27–28	8	3 1/2	4	1/8°	4 5/32	2 5/16	1 1/4	None	.968	3 1/16	Pis	Pis	1 13/32	1 1/32	N	N	N	N	N
Stearns-Knight M&N6-80	29	6	3 3/8	4	1/8	4 1/4	2 1/16	1 1/32	5/16–24	.875	3 5/16	Pis	Pis	1.065	1 1/16	N	N	N	N	N
Stearns-Knight H&J8-90	29	8	3 1/2	4	1/8	4 5/32	2 5/16	1 1/4	None	.968	3 1/16	Pis	Pis	1 13/32	1 1/32	N	N	N	N	N
Stevens Duryea E-G	21–25	6	4 1/16	3	1/4	5 1/16	3 5/16	2 1/16	1/4–24	1.000	4	Rod	Rod	1 1/4	1 5/16	2 1/4	2 1/4	.372	8 1/32	S
Studebaker Big 6	21–26	6	3 1/16	4	5/16	4 1/16	2 5/16	1 1/4	None	1.000	3 5/16	Pis	Pis	1 5/16	1 17/64	1 7/8	1 7/8	.372	6 1/2	D
Studebaker Spec. 6	25–26	6	3 1/2	4	5/16	4 1/16	2 5/16	1 1/4	None	1.000	3 1/16	Pis	Pis	1 5/16	1 17/64	1 7/8	1 7/8	.372	6 1/2	D
Studebaker Std. 6	25–26	6	3 3/8	4	5/16	3 7/8	1 5/16	5/16	None	.875	3	Pis	Pis	1 1/16	5/16	1 5/16	1 5/16	.310	6 13/32	G
Studebaker Dictator	27	6	3 3/8	4	5/16	.....	.....	.....	None	.875	.....	Pis	Pis	.....	.....	1 5/8	1 1/32	.310	.....	G
Studebaker Dictator	28	6	3 3/8	5	1/8	3 7/16	2 13/32	5/16	None	.875	3 1/16	Pis	Pis	1 1/16	1 1/16	1 5/8	1 1/32	.310	4 7/16	G
Studebaker Com	27–28	6	3 1/8	4	5/16	4 1/16	2 11/32	1 5/16	None	1.000	3 1/16	Pis	Pis	1 1/16	1 17/64	1 7/8	1 7/8	.372	5 5/16	G
Studebaker Pres. 8	28	8	3 3/8	4	1/8°	4 1/16	2 13/32	1 5/16	None	1.312	2 5/16	Pis	None	No	No	1 21/32	1 5/16	.372	4 3/4	G
Studebaker Dic. 6	29–30	6	3 3/8	5	1/8°	3 7/16	2 11/32	1 1/16	None	.875	3	Pis	.....	1 1/16	1	1 5/8	1 1/32	.310	.....	G
Studebaker Dic. 8	29–30	8	3 1/16	4	1/8°	3 3/4	2 1/32	1	None	.875	2 5/16	Pis	.....	1 1/16	7/16	1 13/32	1 9/32	.310	.....	G
Studebaker Com. 6	29–30	6	3 3/8	5	1/16°	3 7/16	2 11/32	5/16	None	.875	3	Pis	.....	1 1/16	1 1/16	1 5/16	1 1/32	.310	.....	G
Studebaker Com. 8	29–30	8	3 1/16	4	1/8°	3 3/4	2 1/32	1 1/16	None	.875	2 5/16	Pis	None	No	No	1 13/32	1 5/32	.310	.....	G
Studebaker Pres.	29–30	8	3 1/2	4	1/8°	4 1/4	2 13/32	1 1/16	None	.937	3 1/16	Pis	None	No	No	1 21/32	1 9/16	.372	.....	G
Stutz 693-5	24–25	6	3 1/2	3	1/8	4 1/16	2	1 5/16	None	.875	3 5/16	F.F.	Rod	1 1/32	1 1/32	1 25/32	1 23/32	.375	4 5/16	G
				1	5/16															
Stutz AA	26	8	3 5/16	3	1/8	4 5/16	2 7/16	1 5/16	None	.875	3 11/64	F.F.	Rod	1 1/16	1 3/16	1 7/16	1 7/16	.375	6 1/4	T
Stutz AA	27	8	3 1/4	...	.....	4 5/16	2 7/16	1 5/16	.....	.875	2 51/64	F.F. Rod	Rod	1 1/16	1 3/16	1 19/32	1 19/32	.375	6 1/4	T

Digitized by Google

ENGINE PARTS SIZES—Continued

Passenger Car Make and Model	YEAR	NO. OF CYLS.	Diameter of Bore	PISTON						PISTON PIN						VALVES				
				No. of Ring Grooves	Ring Groove Width	Length	Pin Center to Top of Piston (Ins.)	Distance between Bosses	Set Screw Hole	Diameter	Length	Bearing In.	BUSHING Used?	BUSHING Outside Diameter	BUSHING Length	HEAD DIAM. Inlet	HEAD DIAM. Exhaust	Stem Diam.	Top of Seat to End of Stem	Style Stem End
Stutz CI Piston	28	8	3¼	3	⅛	4 5/16	2 7/16	1 5/16	None	.875	2 51/64	F.F.	Pis	1.065	1⅜	1 19/32	1 19/32	.375	6¼	T
Stutz Al. Piston	28	8	3¼	3	⅛°	4 5/16	2 5/16	1 7/16	None	.875	2 51/64	F.F.	Rod	.....	.....	1 19/32	1 19/32	.375	6¼	T
Stutz Series M	29–30	8	3⅜	4	⅛°	4 17/64	2 27/64	1 5/16	None	.875	2 51/64	F.F.	.....	1.065	1¼	1 21/32	1 21/32	.375	6 11/32	T
						4 11/32	2 1/32													
Velie 60	26	6	3 3/16	4	1/16	3 7/16	2 1/16	1 5/16	5/16–18	.874	2 7/16	Rod	Rod	1 1/16	1¾	1 5/16	1 5/16	.373	5 5/16	G
Velie 6-66	28	6	3 3/16	4	⅛°	3 1/2	1 7/8	1 3/8	5/16–	.874	2 7/8	Rod	Rod	1 1/8	1¾	1 15/32	1 15/32	.312	5 5/32	G
Velie 6-77	28	6	3 3/16	4	⅛°	3 7/8	2 1/8	1 7/8	5/16–	.874	2 7/8	Rod	Rod	1 1/8	1¾	1 5/16	1 5/16	.373	5 5/16	G
Viking V-29	29–30	8	3 3/8	3	3/32°	3 7/8	2 5/16	1¾	5/16–24	.855	3 1/16	Rod	Rod	1	1 1/16	1 15/32*	1 11/32	I-.343	6 49/64	G
Whippet 96-A	30	4	3 1/8	3	⅛°	.....	.....	.....	.....	.796	.....	Rod	Rod	.....	1⅜	1 17/32	1 7/16	.340	.....	G
Whippet 98-A	30	6	3 1/8	3	⅛°	.....	.....	.....	.....	.796	.....	Rod	Rod	.....	1⅜	1 15/32	1 7/16	.343	.....	G
Wills St. Claire A&B-68	24–25e	8	3¼	3	5/32	3 49/64	1 27/32	1 5/16	5/16–18	.750	3	Rod	Rod	⅞	1½	1½	1 3/16	.312	5 1/16	G
Wills St Claire ABC-68	L25-26	8	3¼	3	5/32	3 49/64	1 27/32	1 5/16	5/16–18	.750	3 1/16	Rod	Rod	⅞	1½	1 3/16	1 3/16	.312	5 1/16	G
Wills St. Claire W-6	25–26	6	3 1/4	3	5/32	3 49/64	1 27/32	1 5/16	5/16–18	.750	3 1/16	Rod	Rod	5/16	1½	1½	1½	.312	5 1/16	G
Willys Knight 4 cyl	20–25	4	3 5/8	4	5/16	4¾	2 5/8	1¼	None	.937	3¾	Pis	.....	.....	.....	Sl.	Sl.	Sl.	Sl.	Sl.
Willys Knight 66	25–26	6	3 1/4	4	⅛	.....	.....	.....	None	.875	3	Pis	None	No	No	Sl.	Sl.	Sl.	Sl.	Sl.
Willys Knight 70	26	6	2 5/16	3	.....	3 5/8	2	.....	.....	.750	2 5/16	.....	.....	.....	.....	Sl.	Sl.	Sl.	Sl.	Sl.
Willys Knight Std. 6	28	6	2 5/16	4	⅛°	3 5/8	2	1 9/16	5/16–24	.796	2¾	.....	.....	.....	1⅛	N	N	N	N	N
Willys Knight Great 6	28	6	3 3/8	4	⅛°	4¼	2 7/16	1½	5/16–24	.875	3 5/16	.....	.....	No	No	N	N	N	N	N
Willys Knight Spec. 6	28	6	2 5/16	4	⅛°	3 5/8	2	1 1/16	.....	.796	2¾	.....	.....	.....	1⅛	N	N	N	N	N
Willys Knight 66B	30	6	3 3/8	4	⅛°	.....	.....	.....	.....	.875	.....	Rod	Rod	.....	1⅛	Sl.	Sl.	Sl.	Sl.	Sl.
Willys Knight 70B	30	6	2 5/16	4	⅛	.....	.....	.....	.....	.796	.....	Rod	Rod	.....	1⅛	Sl.	Sl.	Sl.	Sl.	Sl.
Willys Six 98B	30	6	3¼	3	⅛°	.....	.....	.....	.....	.796	.....	Rod	Rod	.....	1⅛	1⅛	1 13/32	.372	.....	G

Engine Parts Sizes—Stock Engines

For Directions, Diagram of Dimensions, Etc., See Page 314
For Passenger Cars Using Own Make of Engine, See Page 315

Engine Make and Model	NO. OF CYLS.	Diameter of Bore	PISTON						PISTON PIN					VALVES				
			No. of Ring Grooves	Ring Groove Width	Length	Pin Center to Top of Piston (Ins.)	Distance Between Bosses	Set Screw Hole	Diameter	Length	Bearing In.	BUSHING Outside Diameter	BUSHING Length	HEAD DIA. Inlet	HEAD DIA. Exhaust	Stem Diam.	Top of Seat to End of Stem	Style Stem End
Automatic J	4	5½	4	5/16	7	3½	2 3/16	.....	1.437	4 5/16	.....	1 7/16	2⅛	2½	2½	.500	9½	T
Automatic M	4	6½	4	3/16	9	4 5/16	3¼	.....	1.687	6⅛	.....	2⅛	3	2¾	2¾	.500	11 5/16	T
Automatic N	4–6	7½	4	1/32	10½	4 7/8	3 3/4	.....	2.	7⅛	.....	2½	3½	3¼	3¼	.875	14 3/8	T
Automatic SR	4–6	9	4	3/8	11	5½	4½	.....	2.437	8½	.....	3⅛	4¼	3 5/8	3 5/8	.875	14 5/8	T
Buda RU	4	3½	3	5/16	5	2½	2 1/16	5/16–18	1.062	3¼	Rod	1 5/16	2⅛	1 5/16	1 5/16	.375	6 7/16	G
Buda MU	4	3 5/8	4	5/16	4½	2 5/16	2 1/16	5/16–18	1.062	3 1/16	Rod	1 5/16	1 5/16	1 5/16	1 5/16	.375	6¾	G
Buda Q, QU	4	3¾	4	5/16	5	2 5/16	2 1/16	¼–20	1.	3½	Rod	1 5/16	2 7/64	2 1/16	2 1/16	.437	7¼	G
Buda WTU	4	3¾	4	5/16	4½	2 1/16	1½	.....	1.375	3	Rod	1 5/16	1⅜	1 5/16	1 31/32	.375	6 25/32	G
Buda CTU	4	3¾	4	5/16	5	2 3/16	.....	¼–20	1.062	3¼	Rod	1 5/16	.....	1⅛	1⅛	.375	6 5/16	G
Buda BUS	6	4	4	¼	5	2½	1 15/16	.....	1.500	3 5/16	Rod	1¾	1½	2⅛	.....	.....	6 51/64	G
Buda IU, ITU	4	4	4	¼	5 3/8	2 5/8	2 5/16	5/16–16	1.125	3 5/16	Rod	1 5/8	2⅛	2 1/16	2 1/16	.437	7 5/16	G
Buda GBU, GTU, KTU, KBUI	4	4	4	¼	5	2½	1 15/16	.....	1.500	3 5/16	Rod	1¾	1½	1⅛	1⅛	.375	6 53/64	G
Buda FTU	4	4	3	¼	5 3/8	2½	.....	.....	1.125	3½	Rod	.....	.....	1⅛	1⅛	.372	6 11/32	G
Buda EBU, EBUI, ETU	4	4 1/4	4	¼	5 3/8	2 5/8	2 5/16	5/16–16	1.125	3 1/16	Rod	1 5/8	2⅛	2 1/16	2 1/16	.437	7 5/16	G
Buda HU, HTU	4	4 1/4	4	¼	5 3/8	2 5/8	2 3/8	5/16–16	1.125	3 1/16	Rod	1 3/8	2⅛	2 1/16	2 1/16	.437	7 53/64	G
Buda XTU	4	4 1/4	4	¼	6¼	3	2 1/4	5/16–16	1.25	3 5/16	Rod	.....	.....	2 3/8	2 3/8	.437	8 3/8	G
Buda YBU, YBUI, YTU	4	4 1/2	4	¼	6¼	3	2 7/16	.....	1.25	3 7/8	Rod	1½	2¼	2 3/8	2 3/8	.437	8 29/64	G
Buda ATU	4	4¼	4	¼	6¾	3¼	2¾	5/16–16	1.375	4 1/8	Rod	1 5/8	2½	2¼	2¼	.437	9 3/8	G
Buda BTU	4	5	4	¼	6¾	3¼	2 13/16	5/16–16	1.375	4 5/8	Rod	1 5/8	2½	2½	2 7/16	.437	9 25/64	G
Buda BA6	6	4 1/8	4	¼	5	2½	1 15/16	.....	1.50	3 5/8	Rod	1¾	1½	1 5/8	1 29/32	.437	6 25/64	G
Buda HS-6	6	3 3/8	4	5/16	3 7/8	1 7/8	1 5/16	.....	1.250	2 15/16	Rod	1 3/8	1¼	1 21/32	1 21/32	.375	5 31/64	G
Buda DW6	6	3¾	4	5/16	4 3/8	2 1/8	1½	.....	1.375	3	Rod	1 5/8	1 3/8	1 25/32	1 31/32	.375	6 11/32	G
Buda GL-6	6	4½	4	¼	6¼	3	1¾	.....	1.875	3¾	Rod	1 7/8	1 9/16	2½	2 11/32	.437	7 25/64	G
Buda GF-6	6	4¾	4	¼	6 1/8	3	2	.....	1.875	4	Rod	1 7/8	1 9/16	2½	2 11/32	.437	7 25/64	G
Buda JH-6	6	6	4	¼	6 7/8	3¼	2 5/16	.....	2.000	5 1/8	Rod	2 5/16	2	2¾	2 25/32	.500	9 53/64	G
Buda H-200	6	3½	4	1/8–5/16	3¾	2	1 7/16	F.F.	1.125	2.985	Rod	1.378	1¼	1 11/32	1 11/32	.372	5 37/64	G
Buda H-298	6	3¾	4	1/8–5/16	3¾	2	1 7/16	F.F.	1.125	3.255	Rod	1.378	1¼	1 21/32	1 11/32	.372	5 37/64	G
Buda H-199	4	3¾	4	1/8–5/16	3¾	2	1 7/16	F.F.	1.125	3.255	Rod	1.378	1¼	1 21/32	1 11/32	.372	5 37/64	G
Buda H-173	4	3½	4	1/8–5/16	3¾	2	1 7/16	F.F.	1.125	2.985	Rod	1.378	1¼	1 21/32	1 11/32	.372	5 37/64	G
Buda J-214	6	3 5/8	4	1/8–5/16	3¾	2	1 5/16	F.F.	1.	2.860	Rod	1.253	1⅜	1 13/32	1 13/32	.310	5 17/64	G
Climax Series K	4	5	3	¼	5¾	2 5/8	2 1/16	3/8–16	1.359	4¾	Rod	1 5/16	2 1/16	2½	2½	.437	8 3/8	G
Climax Series T	4	5½	4	¼	7	3 5/8	2 7/8	½–13	1.484	5 1/16	Rod	1 5/16	2 5/8	2½	2½	.437	8 3/8	G
Climax R4U	4	6	4	¼	6 5/16	3 5/16	1 7/8	.....	1.484	5 3/8	Pis	1¾	1¾	2¾	2¾	.562	9	G
Climax RBU	6	5½	4	¼	6 5/16	3 5/16	1 7/8	.....	1.484	4 7/8	Pis	1¾	1½	2¾	2¾	.562	9	G
Climax R6U	6	6	4	¼	6 5/16	3 5/16	1 7/8	.....	1.484	5 3/8	Pis	1¾	1¾	2¾	2¾	.562	9	G
Climax R14	4	6	4	¼	6 5/16	3 5/16	1 7/8	.....	1.484	5 3/8	Pis	1¾	1¾	2½	2½	.562	7 7/8	G
Climax R16	6	6	4	¼	6 5/16	3 5/16	1 7/8	.....	1.484	5 3/8	Pis	1¾	1¾	2½	2½	.562	7 7/8	G
Climax NA	4	5¼	4	¼	6¾	3¾	1 7/8	.....	1.484	4¾	Pis	1¾	1½	2½	2½	.5625	7¼	G
Climax NB	4	5¾	4	¼	6¾	3¾	1 7/8	.....	1.484	5¼	Pis	1¾	1¾	2½	2½	.5625	7¼	G
Continental 20L	6	2¾	3	5/16	3 3/8	1 5/16	.....	.....	.734	2 31/64	Rod	.....	.....	1 7/16	1 7/16	.375	.....	.....
Continental Jordan J 1926	8	2 7/8	3	5/16	3 5/8	.....	.....	.....	.859	2 17/64	Rod	.....	.....	1½	1 3/8	.312	6	G
Continental 12Z	8	3	3	5/16	.....	.....	.....	.....	.859	....	Rod	1 5/16	1⅛	1 7/16	1 5/8	.375	5 3/8	G
Continental Jordan A 1925	8	3	3	5/16	3¾	.....	.....	.....	.859	2 33/64	Rod	.....	.....	1 5/8	1½	.375	6	G
Continental W4	4	3 1/16	3	5/16	3¼	1 5/16	.....	None	.750	2 23/32	Pis	.....	.....	1 5/8	1 5/8	.375	5 5/16	D
Continental 7U, 6Y	6	3 1/8	3	5/16	3½	1 5/16	1	None	.750	2 7/8	Pis	.....	.....	1 5/8	1 5/8	.375	5 5/16	D
Continental 6W	6	3 1/8	3	5/16	3½	2	.....	5/16–18	.875	3	Rod	1 5/16	.....	1 5/8	1 5/8	.375	5 5/16	D
Continental 7Z	6	3 1/8	3	5/16	4 1/16	.....	1 5/16	5/16–16	.875	2 1/8	Rod	1 5/16	1 5/16	1 5/8	1 5/8	.375	5 1/2	D

Digitized by Google

ENGINE PARTS SIZES, STOCK ENGINES—Continued

Engine Make and Model	NO. OF CYLS.	Diameter of Bore	PISTON						PISTON PIN					VALVES				
			No. of Ring Grooves	Ring Groove Width	Length	Pin Center to Top of Piston (Ins.)	Distance Between Bosses	Set Screw Hole	Diameter	Length	Bearing In.	BUSHING		HEAD DIA.		Stem Diam.	Top of Seat to End of Stem	Style Stem End
												Outside Diameter	Length	Inlet	Exhaust			
Continental 7R	6	3 1/4	3	5/64	4 1/16	2 7/16	1 5/16	.....	.859	3 1/16	Rod	1 1/16	1 3/8	1 5/8	1 5/8	.375	5 11/16	G
Continental 8U, 11U	6	3 1/4	3	5/64	3 3/4	2 5/16	.....	.....	1.		Rod	1 13/64	1 1/4	1 5/8	1 5/8	.375	4 15/64	....
Continental 14U	6	3 1/4	3	5/64	3 3/4	2 5/16	.....	.....	1.		Rod	1 13/64	1 1/4	1 1/2	1 1/2	.375	5 3/16	D
Continental 18U	6	3 1/4	3	5/64	3 1/4	1 15/16	.....	.....	1.		Rod	2 5/8	1 3/4	1 5/8	1 5/8	.390	5 45/64	D
Continental 7W	6	3 1/4	3	5/64	3 1/2	2	1 1/16	5/16-18	.875	3 1/16	Rod	1 1/8	1 1/2	1 1/16	1 1/16	.312	5 1/32	G
Continental 6S	6	3 5/16	3	5/64	3 5/16	2 5/16	1 5/8	3/8-16	.859	2 1/8	Rod	1 1/16	1 3/8	1 5/8	1 5/8	.375	5 5/8	G
Continental Star 4 1925-26	4	3 3/8	3	5/64	3 3/8	1 15/16	1 13/32	None	.859	2 5/8	F.F.	1 1/16	1 5/16	1 1/2	1 1/2	.375	5 17/64	D
Continental 8R	6	3 3/8	3	5/64	4 3/32	2 1/2	1 5/16	3/8-16	.859	3 1/16	Rod	1 1/16	1 3/8	1 5/8	1 5/8	.375	5 1/16	G
Continental 6E	6	3 3/8	3	5/64	4 1/16	2 7/16	1 5/8	3/8-16	.875	3 1/32	Rod	1 1/16	1 3/8	1 5/8	1 5/8	.375	6 21/64	D
Continental 7N	6	3 1/2	3	5/64	3 3/4	2 1/16	1 11/16	3/8-24	1.093	3 1/4	Rod	1 11/32	1 1/2	1 11/16	1 11/16	.375	6 1/8	G
Continental 9M	6 1/2	3 1/2	3	5/64	4 1/2	2 5/16	1 3/4	3/8-24	1.156	3 1/4	Rod	1 13/32	1 1/2	1 11/16	1 11/16	.375	6 1/8	G
Continental 12XD	6 1/2	3 1/2	3	5/64	4 1/2	2 1/16	1 1/16	None	1.156	3 1/4	F.F.	.....	1 1/2	.....	.....	.....	.....	.....
Continental 6T	6	3 5/8	3	5/64	4 3/8	2 1/2	1 5/16	3/8-16	1.125	3 1/4	Rod	1 11/32	1 3/4	1 5/16	1 5/16	.375	6 1/16	G
Continental 8A, AA	6	3 3/4	3	5/64	4 1/2	2 5/16	2 1/32	3/8-16	1.125	3 1/16	Rod	1 11/32	1 3/4	1 5/16	1 5/16	.375	6 1/16	G
Continental 10A	6	3 3/4	3	5/64	4 1/2	2 5/16	.....	.....	1.125	3 11/32	Rod	1 3/8	1 3/4	1 5/16	1 5/16	.375	6 1/16	G
Continental 6J	6	3 3/4	3	5/64	4 1/2	2 5/16	1 5/16	3/8-16	1.125	3 3/16	Rod	1 3/8	1 3/4	1 5/16	1 5/16	.375	6 1/16	G
Continental J4	4	3 3/4	4	5/64	4 7/16	2 5/16	1 5/16	3/8-16	1.125	3 3/16	Rod	1 3/8	1 3/4	1 7/8	1 7/8	.375	6 3/4	G
Continental N, NA	4	3 3/4	3	5/64	3 3/4	2 1/8	1 11/16	3/8-24	1.093	3 7/16	Rod	1 11/32	1 1/2	1 31/32	1 31/32	.375	6 1/8	G
Continental V4	4	3 3/4	3	5/64	3 3/4	2 1/8	1 3/4	3/8-16	1.093	3 7/16	Rod	1 11/32	1 1/2	1 7/8	1 7/8	.375	6 1/8	G
Continental Durant 4	4	3 7/8	3	5/64	4 1/8	1 7/8	.....	None	.859	3 1/16	Pis	None	None	1 5/16	1 5/16	.312	5 1/16	S
Continental C4 Early	4	4 1/8	3	5/64	5	2 7/16	2 1/32	3/8-24	1.218	3 5/16	Rod	1 1/2	1 3/4	2	2	.375	6 1/16	G
Continental C4 Late	4	4 1/8	3	5/64	5 1/4	2 5/16	2 1/32	3/8-24	1.218	3 5/16	Rod	1 1/2	1 3/4	2	2	.375	6 1/16	G
Continental C2 Early	4	4 1/8	3	5/64	5	2 7/16	2 1/32	3/8-24	1.218	3 5/16	Rod	1 1/2	1 3/4	2	2	.406	6 1/16	G
Continental C2 Late	4	4 1/8	3	5/64	5 1/4	2 5/16	2 1/32	3/8-24	1.218	3 5/16	Rod	1 1/2	1 3/4	2	2	.406	6 1/16	G
Continental K4	4	4 1/8	4	1/4	5 7/16	3 3/8	2 1/16	3/8-16	1.250	3 3/4	Rod	1 1/2	1 7/8	2 1/16	2 1/8	.437	7 1/16	G
Continental S4	4	4 1/4	3	1/4	4 3/4	.....	.....	None	1.500	3 1/8	F.F.	.....	1 1/16	1 7/8	1 7/8	.....	.....	....
Continental L5	4	4 1/4	4	....	6 1/4	.....	.....	.....	1.375	3 1/16	Rod	.....	.....	2	2	.....	.....	....
Continental E4, E7	4	4 1/2	3	5/64	5 5/8	2 5/16	2 7/16	3/8-24	1.437	4 1/8	Rod	1 3/4	2 1/4	2 1/4	2 1/4	.437	6 5/8	G
Continental L4	4	4 1/2	4	1/4	5 5/16	3 5/8	2 1/4	3/8-16	1.375	4 1/8	Rod	1 5/8	2	2 1/4	2 1/4	.437	8 5/8	G
Continental B2	4	4 3/4	3	1/4	6 1/8	3 1/2	2 3/8	3/8-16	1.375	4 7/16	Rod	1 5/8	2 1/8	2 3/8	2 3/8	.437	9 1/16	G
Continental B5	4	4 3/4	4	1/4	6 1/16	3 1/2	2 5/8	3/8-16	1.500	4 3/16	Rod	1 3/4	2 3/8	2 3/8	2 3/8	.437	9 1/16	G
Continental B7	4	5	4	1/4	5 29/32	.....	.....	None	1.500	4 5/8	Rod	.....	.....	2 3/8	2 3/8	.437	9 1/16	G
Continental Jewett 1926	6	2 3/4	3	5/64	3 3/8	1 5/16	.....	.....	.734	2 31/64	Rod	1	1	1 3/16	1 1/4	.375	5 29/32	D
Continental Star 6, 1926	6	2 3/4	3	5/64	3 3/8	1 5/16	.....	.....	.750	2 31/64	Rod	5/8	5/8	1 3/8	1 1/4	.375	4 21/32	D
Continental 9L	6	2 3/4	3	5/64	3 3/8	1 5/16	.....	.....	.734	2 31/64	Rod	5/8	5/8	1 3/8	.....	.375	5 11/32	D
Hercules OO-X	4	4	3	1/4	4 7/8	2 5/16	1 5/8	None	1.375	3 1/2	Pis	1.504	1 5/8	1 7/8	1 7/8	.373	6 3/4	....
Hercules K	4	4 1/4	4	5/64	5 1/4	2 1/2	1 5/8	None	1.500	3 3/4	Pis	1.691	1 5/8	2 1/4	2 1/4	.434	7 1/8	....
Hercules L	4	4 1/2	4	5/64	5 1/4	2 1/2	1 5/8	None	1.500	4	Pis	1.691	1 7/8	2 1/4	2 1/4	.434	7 3/8	....
Hercules G	4	4 3/4	4	5/64	5 1/4	2 1/2	1 5/8	None	1.500	4 1/4	Pis	1.691	1 5/8	2 1/4	2 1/4	.434	7 3/8	....
Hercules TX	4	5 1/2	4	5/64	7	3 5/16	1 3/4	None	1.875	4 7/8	Pis	2.129	1 19/32	2 29/32	2 29/32	.497	9 15/32	....
Hercules TXA	4	6	4	5/64	7	3 5/16	1 3/4	None	1.875	5 5/8	Pis	2.129	1 7/8	2 29/32	2 29/32	.497	9 15/32	....
Hercules TXO	4	6 3/8	4	5/64	7	3 5/16	1 3/4	None	1.875	5 3/4	Pis	2.129	2 1/16	2 29/32	2 29/32	.497	9 15/32	....
Hercules YXA	6	3 3/4	3	5/64	4 1/16	2 5/16	1 5/16	None	1.250	3 5/16	Pis	1.379	1 1/16	2	2	.373	6 3/32	....
Hercules YXB	6	4	4	5/64	4 7/16	2 5/16	1 5/16	None	1.250	3 5/16	Pis	1.379	1 5/16	2	2	.373	6 3/32	....
Hercules YXC	6	4 3/8	4	5/64	4 7/8	2 5/16	1 5/16	None	1.250	3 5/16	Pis	1.379	1 5/16	2	2	.373	6 3/32	....
Hercules WXA	6	3 3/8	3	5/64	4	2 1/16	1 1/8	None	1.125	3	Pis	1.25	1	1 7/8	1 3/4	.373	5 7/8	....
Hercules WXB	6	3 3/4	4	5/64	4 5/16	2 1/16	1 1/8	None	1.125	3 3/8	Pis	1.25	1 1/16	1 7/8	1 3/4	.373	5 7/8	....
Hercules WXC	6	4	4	5/64	4 5/16	2 1/16	1 1/8	None	1.125	3 5/8	Pis	1.25	1 1/16	1 7/8	1 3/4	.373	5 7/8	....
John Deere D	2	6 3/4	5	1/4	8 1/16	4 1/16	3 1/2	1/2-13	1.75	6 1/8	Rod	2 1/16	3	2 1/16	2 1/16	.875	7 1/16	G
John Deere GP	2	5 3/4	4	5/64	7	3 5/16	2 5/8	1/2-13	1.75	5 1/4	Rod	2 1/16	2 1/8	2 5/16	2 5/16	.500	8 1/8	G
Le Roi FHR	1	3 1/2	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	3 1/4	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi FR	1	3 1/2	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	3 1/4	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi RH	1	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi RHR	1	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi RR	1	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi M	2	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi MH	2	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi MHR	2	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi MR	2	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi S	2	3 1/8	3	5/64	3 1/2	1 3/4	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi SH	2	3 1/8	3	5/64	3 1/2	1 3/4	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi SHR	2	3 1/8	3	5/64	3 1/2	1 3/4	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi SR	2	3 1/8	3	5/64	3 1/2	1 3/4	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi THR	2	3 3/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	3 1/32	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi TR	2	3 3/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	3 1/32	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi 2C	4	3 1/16	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi CR	4	3 1/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	2 7/8	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi CT	4	3 3/8	3	5/64	3 1/2	1 1/2	1 3/4	.....	.750	3 1/32	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi K	4	2 3/4	3	5/64	3 1/2	1 1/2	1 11/16	.....	.750	3 1/4	Pis	29/32	1 1/16	1 5/8	1 5/8	.312	5	G
Le Roi J-1	4	4 1/4	3	1/4	5 5/16	2 5/16	1 1/2	None	1.500	3 1/16	Pis	None	None	2 1/16	2 1/16	.437	5 1/16	S
Le Roi JA-1	4	4 1/2	3	1/4	5 5/16	2 5/16	1 1/2	None	1.500	3 1/16	Pis	None	None	2 1/16	2 1/16	.437	5 1/16	S
Lycoming Series K	4	3 1/2	3	5/64	4	2	1 5/16	5/16-24	.875	3 1/4	Rod	1 1/16	1 1/16	1 11/16	1 11/16	.375	5 5/16	G
Lycoming CF	4	3 5/8	3	1/8	4 1/8	2 1/16	1 5/16	None	1.125	2 29/32	F.F.	1 1/16	1 3/8	1 25/32	1 25/32	.375	7 1/32	G
			1	5/64														
Lycoming CE	4	3 1/16	4	1/8	4 1/8	2 1/16	1 9/16	None	1.125	3 5/16	Pis	None	None	1 25/32	1 25/32	.375	7 1/32	G
Lycoming CT	4	3 3/4	4	1/8	4 3/8	2 1/16	1 1/4	None	1.125	3 5/16	Pis	None	None	1 25/32	1 25/32	.375	7 1/32	G
Lycoming C4 W	4	4	3	1/8	4 1/8	2 1/16	1 1/4	None	1.125	3 5/16	Pis	None	None	1 25/32	1 25/32	.375	7 1/32	G
Lycoming 2S	6	3 1/16	4	1/8	3 1/32	1 5/16	1 1/16	None	.875	2 1/16	Pis	None	None	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 3S	6	3 5/16	4	1/8	3 1/32	1 5/16	1 1/16	None	.875	2 1/16	Pis	None	None	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 4S	6	3 1/4	4	1/8	3 1/32	1 5/16	1 1/16	5/16-24	.875	2 1/16	Rod	1 1/16	1 3/16	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 4SM, SG, SP	6	3 1/4	4	1/8	3 1/32	1 5/16	1 1/16	5/16-24	.875	2 1/16	Rod	1 1/16	1 1/16	1 5/8	1 11/32	.343	5 1/32	G
Lycoming H Early	8	3	4	1/8	3 1/32	1 5/16	1 5/8	None	.750	2 1/8	Pis	None	None	1 5/8	.....	.343	5 1/32	G
Lycoming H 1925-26	8	3	3	1/8	3 1/32	1 5/16	1 5/8	.....	.875	2 1/16	Rod	1 1/16	1 1/16	1 5/8	.....	.343	5 1/32	G
Lycoming 2H Early	8	3 1/8	4	1/8	3 1/32	1 5/16	1 5/8	None	.750	2 1/16	Pis	None	None	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 2H 1925-26	8	3 1/8	3	1/8	3 1/32	1 5/16	1 5/8	.....	.875	2 1/16	Rod	1 1/16	1 1/16	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 3H Early	8	3 5/16	4	1/8	3 1/32	1 5/16	1 5/8	None	.750	2 1/16	Pis	None	None	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 3H 1925-26	8	3 5/16	3	1/8	3 1/32	1 5/16	1 5/8	.....	.875	2 1/16	Rod	1 1/16	1 1/16	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 4H	8	3 1/4	4	1/8	3 1/32	1 5/16	1 5/8	.....	.875	2 1/16	Rod	1 1/16	1 1/16	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 4HM	8	3 1/4	4	1/8	3 1/32	1 5/16	1 5/8	.....	.875	2 1/8	Rod	1 1/16	1 1/16	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 4H-4HM '27	8	3 1/4	4	1/8	3 3/4	1 5/16	1 5/8	None	.875	2 55/64	Pis	None	None	1 5/8	1 11/32	.343	5 1/32	G
Lycoming 4SL	6	3 1/4	4	1/8	3 5/16	2 1/16	1 5/32	None	.875	2 1/8	Pis	None	None	1 5/8	1 11/32	.343	5 1/32	G
Lycoming TH	6	3 1/2	4	5/64	4 3/8	2 3/8	1 17/32	None	1.875	2 61/64	Pis	None	None	2	1 7/8	.375	6 1/4	G
Lycoming TF	6	3 5/8	4	5/64	4 3/8	2 3/8	1 9/16	None	1.875	2 61/64	Pis	None	None	2	1 7/8	.375	6 1/4	G
Lycoming TS	6	3 7/8	4	5/64	4 3/8	2 3/8	1 9/16	None	1.875	3 1/64	Pis	None	None	2	1 7/8	.375	6 1/4	G
Lycoming GT	8	2 3/4	4	1/8	3 1/32	1 5/16	1 5/16	None	.875	2 1/64	Pis	1	1 25/32	1 17/32	1 13/32	.343	5 7/32	G
Lycoming GS	8	2 7/8	3	5/64	3 1/32	1 5/16	1 5/16	None	.875	2 55/64	Pis	None	None	1 17/32	1 13/32	.343	5 7/32	G
Lycoming WS, WSG	6	2 7/8	3	5/64	3 1/32	1 5/16	1 1/4	None	.875	2 55/64	Pis	None	None	1 17/32	1 13/32	.343	5 7/32	G
Lycoming CT '27	4	3 3/4	4	1/8	4 3/8	2 1/16	1 17/32	None	1.875	3 31/64	Pis	None	None	1 25/32	1 25/32	.375	7 1/32	G
Lycoming HD, MD	8	3 1/4	4	1/8	3 5/16	2 1/16	1 5/16	None	.875	2 1/8	Pis	None	None	1 5/8	1 11/32	.343	5 1/32	G
				5/64														

Digitized by Google

ENGINE PARTS SIZES, STOCK ENGINES—Continued

Engine Make and Model	NO. OF CYLS.	Diameter of Bore	PISTON						PISTON PIN					VALVES				
			No. of Ring Grooves	Ring Groove Width	Length	Pin Center to Top of Piston (Ins.)	Distance Between Bosses	Set Screw Hole	Diameter	Length	Bearing In.	BUSHING Outside Diameter	BUSHING Length	HEAD DIA. Inlet	HEAD DIA. Exhaust	Stem Diam.	Top of Seat to End of Stem	Style Stem End
Lycoming GR	8	2 7/8	4	1/8°	3 3/4	2 3/8	1 5/8	None	.875	2 35/64	Pis	None	None	1 17/32	1 13/32	.343	5 7/8	G
Lycoming WR	6	2 7/8	4	1/8°	3 3/4	2 3/8	1 5/8	None	.875	2 35/64	Pis	None	None	1 17/32	1 13/32	.343	5 7/8	G
Lycoming WRG	6	2 7/8	4	....	3 3/4	2 3/8	1 5/8	None	.875	2 35/64	Pis	None	None	1 17/32	1 13/32	.343	5 7/8	G
Lycoming WNP	6	2 3/4	4	1/8	3 1/2	1 5/8	1 5/8	None	.750	2 11/64	Pis	None	None	1 17/32	1 13/32	.343	5 7/8	G
Lycoming CUWM	4	4	4	3/16	4 1/8	2 5/8	1 7/8	3/8-24	1.125	3 1/2	Rod	1 5/8	1 5/8	1 25/32	1 25/32	.375	7 3/16	G
Lycoming ASA	6	3 5/8	4	....	4 1/4	2 1/2	1 1/2	None	1.	3 1/8	Pis	None	None	1 21/32	1 3/4	.375	5 35/64	G
Lycoming AFE-AFD	4	3 3/4	4	3/16	4 1/2	2 1/2	1 5/8	None	.875	3 11/64	Pis	None	None	1 21/32	1 17/32	.343	5 23/64	G
Stearns HU	4	4 1/2	4	3/16	5 3/4	3 1/8	2 1/4	3/8 T	1.500	4	Rod	1 3/4	2 1/8	2 3/16	2 3/16	.500	6 3/32	S
Stearns HR	4	4 1/2	4	3/16	6 1/8	3 1/2	2 1/4	3/8 T	1.500	4	Rod	1 3/4	2 1/8	2 3/16	2 3/16	.500	6 3/32	S
Stearns MHU	4	4 1/2	4	3/16	5 1/4	3 1/8	2 1/4	3/8 T	1.500	4	Rod	1 3/4	2 1/8	2 3/16	2 3/16	.500	6 3/32	S
Stearns MHR	4	4 1/2	4	3/16	6 1/8	3 1/2	2 1/4	3/8 T	1.500	4	Rod	1 3/4	2 1/8	2 3/16	2 3/16	.500	6 3/32	S
Stearns AU	4	4 3/4	4	3/16	6	3 3/8	2 1/2	3/8 T	1.625	4 1/4	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Stearns DU	4	5 1/8	4	3/16	6	3 3/8	2 1/2	3/8 T	1.625	4 5/8	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Stearns EU	4	5 1/2	4	3/16	6	3 3/8	2 1/2	3/8 T	1.625	5	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Stearns MDU	4	5 1/8	4	3/16	6	3 3/8	2 1/2	3/8 T	1.625	4 5/8	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Stearns MDR	4	5 1/8	4	3/16	6 1/2	3 3/8	2 1/2	3/8 T	1.625	4 5/8	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Stearns MEU	4	5 1/2	4	3/16	6	3 3/8	2 1/2	3/8 T	1.625	5	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Stearns MEUV-6	6	5 1/2	4	3/16	6	3 3/8	2 1/2	3/8 T	1.625	5	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Stearns MERV-6	6	5 1/2	4	3/16	6 3/4	3 3/8	2 1/2	3/8 T	1.625	5	Rod	1 3/4	2 1/4	2 7/16	2 7/16	.500	6 5/8	S
Twin City TW	4	4 1/4	4	1/4	5	2 3/16	2 1/4	T	1.25	3 7/8	Rod	1 3/8	2	1 21/32	1 21/32	.375	6 25/64	G
Twin City AE	4	5 1/2	4	5/16	6 3/4	3 1/2	3 1/4	T	1.625	5	Rod	1 3/4	3	2 3/32	2 3/32	.500	7 27/64	G
Twin City FE	4	4 1/2	4	1/4	5 1/2	2 5/16	2 1/4	T	1.25	3 7/8	Rod	1 3/8	2	2 3/32	2 3/32	.500	6 25/64	G
Twin City TR	4	6 1/4	4	3/8	7 3/4	4 3/8	3	T	1.875	5 1/2	Rod	2 1/4	2 7/8	2 7/8	2 7/8	.625	9 1/8	T
Twin City TA	4	7 1/4	4	1/2	10	5 3/8	3 3/4	T	2.187	6 1/16	Rod	2 7/16	3 1/2	3 11/32	3 11/32	.687	8 53/64	G
Twin City BE	4	7 3/4	4	1/2	10 1/4	5 5/8	4 1/4	T	2.187	7 5/16	Rod	2 7/16	3 7/8	3 11/32	3 11/32	.687	8 53/64	G
Twin City TE	6	7 3/4	4	1/2	10 1/4	5 5/8	4 1/4	T	2.187	7 5/16	Rod	2 7/16	3 7/8	3 11/32	3 11/32	.687	8 53/64	G
Twin City KE	4	4 1/4	4	1/4	5	2 5/16	2 1/4	T	1.25	3 7/8	Rod	1 3/8	2	1 27/64	1 27/64	.437	6 41/64	G
Waukesha ZA	4	3 1/4	3	3/16	3 5/16	2 3/16	1 5/16	None	.750	2 5/16	Pis	.....	.....	1 5/16	1 3/16	.375	5 3/16	G
Waukesha XA	4	3 1/2	3	3/16	3 1/16	.....	.....	None	.750	3 5/16	Pis	.....	.....	1 5/16	1 5/16	.375	.....	G
Waukesha FU	4	4	3	1/4	5 1/16	3 1/16	1 5/8	None	1.250	3 3/8	Pis	1 1/2	1 1/4	2 1/8	2 1/8	.437	7 3/16	G
Waukesha CU	4	4 3/8	3	1/4	5 1/16	3 3/8	1 5/8	None	1.250	3 3/4	Pis	1 1/2	1 5/16	2 1/8	2 1/8	.437	7 3/16	G
Waukesha DU	4	4 1/2	3	1/4	5 5/16	3 3/8	1 1/2	None	1.375	3 7/8	Pis	.....	1 5/16	2 3/16	2 3/16	.437	8 5/64	G
Waukesha EU	4	5	3	1/4	6 1/2	3 3/8	1 1/2	None	1.375	4 7/16	Pis	1 5/16	1 5/16	2 3/16	2 3/16	.437	8 5/64	G
Waukesha GU	4	5 1/16	3	1/4	6 15/16	3 3/8	.....	None	1.375	4 5/16	Pis	.....	.....	2 3/16	2 3/16	.437	8 5/64	G
Waukesha WS	4	5 3/4	4	1/4	7 1/2	.....	.....	None	1.625	5 1/4	Pis	.....	.....	2 3/4	2 3/4	.....	.....	T
Waukesha WL	4	6 1/4	4	1/4	7 1/2	.....	.....	None	1.625	5 3/4	Pis	.....	.....	2 3/4	2 3/4	.....	.....	T
Waukesha WK	4	6 3/4	4	1/4	7 15/16	.....	1 7/8	None	1.625	6 1/8	Pis	2	2 3/16	3 3/16	3 3/16	.559	13 1/16	T
Waukesha 6QB	6	4	3	3/16	5	.....	1 1/2	None	1.375	3 3/8	Pis	1 5/8	1 1/2	2 3/8	2 3/8	.437	8 33/64	G
Waukesha 6HB	6	4 1/4	3	3/16	5	.....	1 1/2	None	1.375	3 1/16	Pis	1 5/8	1 5/16	2 3/8	2 3/8	.437	8 33/64	G
Waukesha 6AB	6	4 1/2	3	3/16	5	.....	1 1/2	None	1.375	3 7/8	Pis	1 5/8	1 5/16	2 3/8	2 3/8	.437	8 33/64	G
Waukesha 6KL	6	4	3	3/16	4 11/32	.....	1 7/16	None	1.000	3 5/16	Pis	.....	.....	2	2	.375	6 1/4	G
Waukesha 6X	6	3 1/2	3	3/16	3 1/16	.....	.....	None	.750	3 5/16	Pis	.....	.....	1 7/16	1 7/16	.375	5 5/16	G
Waukesha V	4	4	3	3/16	4 11/32	.....	1 7/16	None	1.000	3 5/16	Pis	.....	.....	2	2	.375	6 1/4	G
Waukesha JS	4	5 1/2	4	1/4	6 21/32	.....	1 7/8	None	1.625	4 7/8	Pis	1 13/16	1 13/16	2 29/32	2 29/32	.559	10 1/32	T
Waukesha JL	4	6	4	1/4	6 21/32	.....	1 7/8	None	1.625	5 1/4	Pis	1 13/16	1 13/16	2 29/32	2 29/32	.559	10 1/32	T
Waukesha XA	4	3 1/2	3	....	.....	.....	.....	.....	.750	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha XAK	4	3 3/4	3	....	.....	.....	.....	.....	1.000	....	P&R	.....	.....	.....	.....	.....	.....	....
Waukesha VK	4	4 1/4	3	....	.....	.....	.....	.....	1.000	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha VIS	4	4 1/8	4	....	.....	.....	.....	.....	1.312	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha VIL	4	4 3/8	4	....	.....	.....	.....	.....	1.312	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha CSR	4	4 1/4	3	....	.....	.....	.....	.....	1.250	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha CR	4	4 3/8	3	....	.....	.....	.....	.....	1.250	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha DR	4	4 1/2	3	....	.....	.....	.....	.....	1.375	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha DKR	4	4 3/4	3	....	.....	.....	.....	.....	1.375	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha ER	4	5	3	....	.....	.....	.....	.....	1.375	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha CSH	4	4 3/4	4	....	.....	.....	.....	.....	1.500	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha CKH	4	5 1/8	4	....	.....	.....	.....	.....	1.500	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha HS	4	5 1/2	4	....	.....	.....	.....	.....	1.375	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha HL	4	6	4	....	.....	.....	.....	.....	1.375	....	Pis	.....	.....	.....	.....	.....	.....	....
Waukesha JK	4	6 1/2	4	....	.....	.....	.....	.....	1.625	....	Pis	.....	.....	.....	.....	.....	.....	....
Wisconsin Y	6	3 3/8	3	3/8	4	2	1 5/8	Key	1.062	2 27/64	Rod	1 1/8	1 1/8	1 21/32	1 21/32	.375	6 3/4	G
Wisconsin CAU	4	3 3/4	3	1/4	5 5/32	2 21/32	1 5/8	3/8-16	1.187	3 5/8	Rod	1 7/8	1 3/4	1 5/8	1 5/8	.375	.....	G
Wisconsin EAU	4	4	3	1/4	4 25/32	2 1/2	1 5/8	3/8-16	1.187	3 5/8	Rod	1 7/8	1 3/4	1 5/8	1 5/8	.437	.....	G
Wisconsin H	6	4	3	3/8	4 1/2	2 3/4	2	Key	1.187	3 15/32	Rod	1 7/8	1 3/4	1 7/8	1 7/8	.437	5 47/64	G
Wisconsin SU	4	4	3	3/8	4 1/4	2 1/8	1 5/8	Key	1.062	3 31/64	Rod	1 5/8	1 3/4	1 5/8	1 5/8	.375	5 3/4	G
Wisconsin TAU	4	4	3	1/4	5 3/8	2 5/8	2 1/8	Key	1.187	3 15/32	Rod	1 7/8	2	2 1/4	2 1/4	.437	7 3/8	G
Wisconsin W	4	4 1/8	3	3/8	4 5/32	2 1/32	1 5/8	Key	1.062	3 31/64	Rod	1 5/8	1 3/4	1 5/8	1 5/8	.375	5 3/4	G
Wisconsin UAU	4	4 1/4	3	1/4	5 1/16	2 5/16	2 1/4	Key	1.187	3 15/32	Rod	1 7/8	2	2 1/4	2 1/4	.437	7 3/8	G
Wisconsin RCU	4	4 1/2	3	1/4	5 39/64	3 15/32	2 5/8	Key	1.375	3 15/32	Rod	1 5/8	2 3/8	2 3/8	2 3/8	.437	8 5/64	G
Wisconsin VAU	4	4 1/2	3	1/4	4 5/8	2 1/32	2 1/4	Key	1.187	3 5/8	Rod	1 7/8	2	2 1/4	2 1/4	.437	7 3/4	G
Wisconsin Z	6	4 1/2	4	3/8	4 3/4	2 3/4	2 1/4	Key	1.187	3 5/8	Rod	1 7/8	2	2 1/4	2 1/4	.437	5 49/64	G
Wisconsin RAU	4	4 3/4	3	1/4	6 1/8	3 1/8	2 1/8	Key	1.375	4 1/4	Rod	1 5/8	2 3/8	2 3/8	2 3/8	.437	8 5/64	G
Wisconsin AU	4	4 3/4	3	1/4	6 1/4	3 1/32	1 5/8	None	1.187	4 5/8	Pis	1 7/8	.....	2 1/32	2 1/32	.437	.....	G
Wisconsin RBU	4	5	3	1/4	5 13/32	2 29/32	2 1/8	Key	1.375	4 1/32	Rod	1 5/8	2 3/8	2 3/8	2 3/8	.437	8 5/64	G
Wisconsin J, JU, JR	4	5.10	3	1/4	6 1/8	2 7/8	.....	None	1.187	4 11/16	Pis	1 7/8	.....	2 3/8	2 3/8	.437	8 5/64	G
Wisconsin K	4	6	4	1/4	6 1/4	3 3/4	3 1/16	Key	1.687	5 13/64	Rod	2	3	2 3/16	2 3/16	.500	7 1/64	G
Wisconsin HB	6	3 3/4	3	3/8	4 1/16	2 5/16	1 5/16	Key	1.187	3 1/4	Rod	1 7/8	1 3/4	1 7/8	1 7/8	.437	5 47/64	G
Wisconsin X	4	4 1/2	4	3/8	4 3/8	2 3/4	2 1/4	Key	1.187	3 5/8	Rod	1 7/8	2	2	2	.437	5 49/64	G
Wisconsin C	4	3 3/4	3	3/8	4 13/32	2 11/32	1 5/8	Key	1.062	3 1/4	Rod	1 5/8	1 3/4	1 5/8	1 5/8	.375	5 3/4	G
Wisconsin C-1	4	4 1/8	3	3/8	4 5/8	2 1/32	1 5/8	Key	1.062	3 15/32	Rod	1 5/8	1 3/4	1 5/8	1 5/8	.375	5 3/4	G
Wisconsin C-2	4	4 1/2	3	1/4	5 5/8	2 5/8	2 1/4	Key	1.187	3 5/8	Rod	1 7/8	2	1 5/8	1 5/8	.375	6 1/4	G
Wisconsin CA-1	4	4 1/8	3	1/4	5 13/32	2 11/32	1 5/8	Key	1.062	3 15/32	Rod	1 5/8	1 5/8	1 5/8	1 5/8	.375	6 1/4	G
Wisconsin N	6	3 1/2	3	3/8	4	1 29/32	1 5/8	Key	1.062	2 55/64	Rod	1 5/8	1 7/8	1 21/32	1 21/32	.375	5 1/8	G
Wisconsin F	6	3 1/4	3	3/8	3 3/4	2	1 5/8	Key	.937	2 25/64	Rod	1 5/8	1 5/8	1 15/32	1 15/32	.312	5 3/4	G
Wisconsin B-2	4	5 1/4	5	1/4	5 61/64	3 45/64	3	Key	1.500	4 1/2	Rod	1 3/4	2 5/8	2 1/4	2 1/4	.437	6 31/64	G
Wisconsin B-3	4	5 1/2	5	1/4	5 3/4	3 1/8	3	Key	1.500	4 3/4	Rod	1 3/4	2 5/8	2 1/4	2 1/4	.437	6 31/64	G
Wisconsin E & ET	6	6	5	1/4	6 1/4	3 1/4	3 3/8	Key	1.687	5 13/64	Rod	2	3	2 3/16	2 3/16	.500	7	G
Yellow Sleeve S	4	3 3/8	3	....	4	1 7/8	1 3/4	None	1.093	3	F.F.	1 1/2	1.49	Sl.	Sl.	Sl.	Sl.	Sl.
Yellow Sleeve HX	6	3 1/2	5	....	4 7/8	2 1/8	1 5/8	None	1.000	2 31/32	F.F.	1 1/4	1.49	Sl.	Sl.	Sl.	Sl.	Sl.
Yellow Sleeve Z	4	4	3	....	4 59/64	2 1/8	1 1/8	None	1.250	3 5/8	Pis	1 7/8	1.25	Sl.	Sl.	Sl.	Sl.	Sl.
Yellow Sleeve Y, YZ	6	4 1/4	5	....	4 59/64	2 1/8	1 7/8	None	1.250	3 23/32	F.F.	1.44	1.49	Sl.	Sl.	Sl.	Sl.	Sl.

ABBREVIATIONS:

*—Angle of seat other than 45°
°—Compression ring width
D. Dr.—Drilled
e—Early
E—Exhaust valve
F.F.—Full Floating
G—Grooved
I—Inlet valve
L—Late
M—Mushroom
Pis—Piston
S—Slotted
Sl—Sleeve valve
Sp—Special
T—Threaded

Digitized by Google

Engines—Passenger Cars

The make and model of engine used in any passenger car can be determined here by looking up the name, model and year of the car in its alphabetical order. Having determined the engine used, information on replacement parts for that engine can be found in the Engine Parts Sizes Tables page 315 and 318.

ABBREVIATIONS: Anst—Ansted Cont—Continental Her-Spill—Herschell-Spillman Lyc—Lycoming Wis—Wisconsin Weld—Weidley

Make of Passenger Car and Model	Year	Make of Engine Used
Ajax	26	Ajax
American D-66	23-25	Her-Spill 91
Anderson 50	23-25	Cont. 8R
Anderson 41	24-25	Cont. 7U
Apperson 8	24-25	Apperson 8
Apperson 6	25-26	Apperson 6
Apperson 8	26	Lyc. 2H
Auburn 6-43	24-25	Cont. 7U
Auburn 8-63	25	Lycom'g H
Auburn 4-44	26	Lyc. CF
Auburn 6-66	26	Lyc. 4SM
Auburn 8-88	26	Lyc. 4HM
Auburn 6-66	27	Cont. 28L
Auburn 8-77	27	Lyc GT
Auburn 76	28	Lyc. WS
Auburn 88	28	Lyc. GS
Auburn 115	28	Lyc. 4 MD
Auburn 6-80, 6-85	29-30	Lyc. WR
Auburn 8-90, 8-95	29-30	Lyc. GR
Auburn 120, 125	29-30	Lyc. MDA
Barley 6-50	25	Cont. 7U
Blackhawk L6	29-30	Own L6
Blackhawk L8	29-30	Own L8
Buick All	22-30	Buick
Cadillac 353	17-30	Cadillac
Cadillac 452	30	Own 452
Case Late X	22-25	Cont. 8R
Case Y	24-25	Cont. 6T
Case Y	26	Cont. 6J
Case J. I. C.	24-25	Cont. 8R
Chandler All	19-29	Chandler
Chevrolet All	17-30	Chevrolet
Chrysler All	25-29	Chrysler
Chrysler Six	30	Own
Chrysler 66	30	Own CC
Chrysler 70	30	Own V
Chrysler 77	30	Own W
Chrysler Imp.	30	Own L
Cleveland All	19-26	Cleveland
Cole All	17-25	Northway 311
Cord L-29	30	Lyc. FDA
Cunningham All	17-30	Cunning'm
Dagmar 6-70	22-26	Cont. 6J
Dagmar 6-60	25	Cont. 8R
Daniel 19-24-38	25	Daniels
Davis 61-67-81-91	22-25	Cont. 8R
Davis 71, 90	24-25	Cont. 7U
Davis 92	26-27	Cont. 11U
Davis 93	26-27	Cont. 20L
Davis 94	27	Cont. 28L
Davis 98	27	Cont. 8S
Davis 99	28	Cont. 14S
De Soto Six	29-30	Own K
De Soto St. 8	30	Own CF
Diana St. 8	26-28	Cont. 12Z
Dodge All	17-30	Dodge
Dorris IB6, 80	17-25	Dorris
Duesenberg Str. 8	22-26	Duesenb'g
Duesenberg 8	29	Duesenb'g
Duesenberg J	30	Own J
duPont D, E, F	25-29	Wiscon. Y
duPont G	29	Cont. 12 K
duPont G	30	Own
Durant A22	21-26	Cont. Spec.
Durant 55, 60	28-29	Cont. 14L
Durant 65, 66	28-29	Cont. 15L
Durant 75	28	Cont. 15U
Durant 40	29	Cont. W5
Durant 70	29	Cont. 20E
Durant 6-14	30	Cont. 22A
Durant 6-17	30	Cont. 15U
Elcar A to 4-40	17-25	Lyc. CF
Elcar 6-60	22-25	Cont. 8R
Elcar 6-50	24-25	Cont. 7U
Elcar 8-80	25	Lycom'g H
Elcar 4-55	26	Lyc. CF
Elcar 4-55	26*	Lyc. CE
Elcar 6-65	26	Lyc. S
Elcar 6-65	26*	Lyc. 4SM
Elcar 8-81	26	Lyc. 4H
Elcar 6-70	27	Lyc. WT
Elcar 8-82	27	Lyc. Gt
Elcar 8-82	27-28	Lyc. GS
Elcar 8-90, 8-91	27-28	Lyc. 4HM
Elcar 6-70	28	Lyc. WS
Elcar 8-78	28	Lyc. GT
Elcar 120	28-30	Lyc. MD
Elcar 75-A	29-30	Lyc. WS
Elcar 95 & 96	29-30	Lyc. GS
Elcar 130, 140	30	Cont. 12K
Erskine 6	27	Stud'b'k'r-Cont.
Erskine Six 51	28	Cont. 9F
Erskine Six 52	29	Own
Erskine 53	30	Own
Essex All 4 & 6	19-30	Essex
Falcon-Knight	27	Wilson
Falcon-Knight 12	28	Own
Flint Jr. 6-Z-18	26-27	Cont. 9L
Flint 55-80	23-25	Cont. Spec.
Flint 40-60	24-25	Cont. Spec.
Flint B-60	26-27	Cont. 14U
Flint E-80	26-27	Cont. 6E
Ford T	17-28	Ford
Ford	29-30	Ford A
Franklin	17-30	Franklin
Gardner 5	23-25	Lyc. CE
Gardner 6	25	Gardner
Gardner 8A	26	Lyc. 2H
Gardner 6A	26	Lyc. 4S
Gardner 6 B	26†	Lyc. 4SM
Gardner 8 B	26†	Lyc. 4HM
Gardner 80	27	Lyc. GT
Gardner 90	27	Lyc. 4HM
Gardner 75	28	Lyc. GT
Gardner 85, 125	28-29	Lyc. GS
Gardner 95, 130	28-29	Lyc. MD
Gardner 120	29	Lyc. GT
Gardner 136	30	Lyc. WR
Gardner 140	30	Lyc. GR
Gardner 150	30	Lyc. MD
Graham All	30	Own
Graham-Paige All 6	28	Own
Graham-Paige 835	28	Cont.
Graham-Paige All	29	Own
Gray N, O	22-25	Gray
Gray S	26	Gray R
Haynes All	19-25	Haynes
H. C. S. S6	24-25	H.C.S.
Hertz D-1	26	Cont. 18U
Hudson Super Six	21-29	Hudson
Hudson Great 8	30	Own
Hupmobile All	17-30	Hupmobile
Jewett All	22-25	Jewett
Jewett New Day, 6-45	26-27*	Cont. Spec.
Jordan K&L, "A"-A A	25-27	Cont. Spec.
Jordan J	26	Cont. Spec.
Jordan R	27-28	Cont. 12E
Jordan AA	27	Cont. 9K
Jordan J1	27	Cont. 8S
Jordan JJ, JE	28	Cont. 14S
Jordan E & G	29	Cont.
Jordan Line 70 & 80	30	Cont. 17S
Jordan 90	30	Cont. 15S
Jordan Z Speedway	30	Cont. 12K
Kissel All	20-30	Kissel
La Salle	27-30	La Salle
Lexington M. M. 6-50	24-26	Anst. M
Lexington Concord	25	Anst. F
Lexington 6-50	26	Anst. M
Lincoln All	20-30	Lincoln
Locomobile 48	25-29	Locomobile
Locomobile Jr. 8 "90"	26	Locomobile
Locomobile 8-80	27-29	Lyc. Spec.
Locomobile 90	27-28	Locomobile
Locomobile 8-70	28	Cont. Spec.
Locomobile 88	29	Lyc. HDL
Locomobile 90	29	Own
Marmon, All	17-30	Marmon
Maxwell 25	21-25	Maxwell
McFarlan TV	20-28	McFarlan
McFarlan SV	24-26	Wisc. Y
McFarlan St. 8	26-28	Lyc. 4H
Mercer Series 5 & 6	17-25	Mercer
Moon Newport	25	Cont. 7U
Moon Metropolitan	25	Cont. 7C
Moon London	25-26	Cont. 8R
Moon Series A	25-28	Cont. 7Z
Moon 6-60	27	Cont. Spec
Moon 6-60	27-28	Cont. 26-L
Moon 6-72	28	Cont. 11E
Moon 8-80	28	Cont. 15S
Nash All	17-30	Nash
Oakland 6-54, 6, AA6	24-29	Oakland
Oakland 8	30	Own 101
Oldsmobile 43A, 30, 30E	21-27	Oldsmobile
Oldsmobile F-28, F 29, F-30	28-30	Oldsmobile
Overland All	20-29	Overland
Packard All	17-30	Packard
Paige	25	Cont. 10A
Paige 24-26, 6-72	26	Paige
Paige 6-45	27	Cont. Spec.
Paige 6-75	27	Paige
Paige 8-85	27	Lyc. Spec.
Peerless All	17-25	Peerless
Peerless 6-60	27	Cont. Spec.
Peerless 6-72	26-27	Peerless 72
Peerless 6-80	26-28	Cont. 8U
Peerless 8-69	26-28	Peerless
Peerless 6-60	28	Cont. 10E
Peerless 6-61, 61-A	29-30	Cont. 11E
Peerless 6-81	29	Cont. 18C
Peerless 6-91	29	Peerless
Peerless 125	29	Cont.
Peerless Cus., Mas. 8	30	Own
Pierce-Arrow 33, 80, 36, 81	24-28	Own
Pierce-Arrow 133	29	Own 125
Pierce-Arrow 143	29	Own 126
Pierce-Arrow 132	30	Own 132
Pierce-Arrow 125, 139	30	Own 125
Pierce-Arrow 126	30	Own 126
Plymouth	29-30	Own U
Pontiac	26-30	Pontiac
Reo T6	20-26	Reo
Reo Wolverine	27-28	Cont. 15E
Reo A, Flying Cloud	27-28	Reo
Reo the Master	29	Own CA
Reo The Mate	29	Own 16C
Reo 15	30	Cont. 16E
Reo 20, 25	30	Own
Revere M	24-26	Monson M
Revere 25	25-26	Cont. 6J
Rickenbacker	22-26	Rickenb'r
Roamer 6-54-E	22-26	Cont. 9N
Roamer 4-75-E	24-26	R-D G1
Roamer 6-50-55	25-26	Cont. 7U
Roamer 8-88	25-26	Lyc. H
Roamer 8-80	26-30	Lyc. 4HM
Roamer 8-78	27-30	Lyc. GT
Roamer 8-88	27-30	Lyc. 4H
Rolls-Royce S.G., N.P. Roosevelt	25-30	R'ls-Royce
	29	Own
Stanley 740, 252	17-26	Stan. 740, 252
Star All	22-27	Cont. Spec.
Star 4	27-28	Cont. W5
Star 6	27	Cont. 14L
Stearns Knight All	17-29	Own
Stev.-Duryea E-6, G	20-25	Own
Sterling-Knight 6	23-25	Own
Studebaker Special 6	18-26	Own EQ
Studebaker Light 6, EG6	21-26	Own ER
Studebaker EG-6, Big 6	21-26	Own EP
Studebaker All	27-30	Studebaker
Stutz AA, BB	26-29	Stutz
Stutz Series M	30	Own 8
Velie All 6	22-28	Velie
Velie 8-88	28	Lyc.
Viking	29-30	Own
Westcott A44, B44, 44, 60	22-25	Cont. 8R
Whippet 96A, 98A	30	Own
Wills St. Claire, All	21-27	W. St. Cl.
Willys-Knight All	20-30	Own
Willys Six 98B	30	Own 98B
Windsor	29	Cont. 5S
Windsor 6-69	30	Cont. 37L
Windsor 6-75	30	Cont. 11E
Windsor 8-85, 8-92	30	Cont. 15S

Digitized by Google

Engines—Commercial Vehicles

The Make and Model of Engine Used in Any Commercial Vehicle Can Be Determined Here By Looking Up the Name, Tonnage, and Year of the Vehicle in Its Alphabetical Order. Having Determined the Engine Used, Information on Replacement Parts for That Engine Can Be Found in the Engine Parts Sizes Tables Starting Page 318. For Abbreviations See End of List.

Make of Commercial Vehicle	Tonnage	Year	Make of Engine Used
Acason	1-1½	18-23	Wauk. BUX
Acason	2½-4	18-23	Wauk. CU
Acason	5	18-23	Wauk. EU
Ace	1½-2	19-22	Buda WU
Ace	2½	19-22	Buda HU
Ace	1-1½	23	Midw. 412
Ace	2-3	23	Midw. 402
Ace	1½	24	Buda WU
Ace	3	24	Buda HU
Ace	2½	25-26	Buda EBU
Acme	¾-1½	18-23	Cont. NA
Acme	2½	22-23	Cont. B5
Acme	2	22-24	Cont. J4
Acme	2-3	22-24	Cont. K4
Acme	4½	22-25	Cont. L4
Acme	1½	24-27	Cont. 8R
Acme	3	24-25	Cont. 6B
Acme	4	24	Cont. B5
Acme	1-2	25-26	Cont. S4
Acme	6	25-26	Cont. B7
Acme	3	26	Cont. L4
Acme	5	26	Cont. B7
Acme 14	1	27-29	Cont. H8
Acme 16	1	27-28	Cont. 20L
Acme 16	1	29	Cont. 29L
Acme 24	1¼	27-28	Cont. S4
Acme 44, 54	2-2½	27-28	Cont. S4
Acme 56	2½	27-28	Cont. 6B
Acme 74	3½	27-28	Cont. L4
Acme 76	3½	27-28	Cont. 7T
Acme 90L, 104	4½-5	27-28	Cont. B7
Acme 36	1½	28	Cont. 8R
Acme 46	2	28	Cont. 15C
Acme 106	5	28	Cont. 8T
Acme 44, 340	2	29	Cont. S4
Acme 46, 341	2	29	Cont. 16C
Acme 52, 56 Spec.	2½	29-30	Cont. 18R
Acme 64	3	29-30	Cont. L4
Acme 66	3	29-30	Cont. 20R
Acme 90L, 150	4½-5½	29-30	Cont. B7
Acme 151	5½	29-30	Cont. 15H
Acme 17	1	30	Cont. 291
Acme 24	1½	30	Cont. S4
Acme 26, 47	1½-2	30	Cont. 16C
Acorn	2½	25-26	Buda ETU
Acorn	4	25-26	Buda YBUI
Acorn	1-1½	27-28	Cont. S4
Acorn	2-2½	27-28	Cont. S4
Acorn 50	2½-3	27-28	Buda ETU
Acorn	4-5	27-29	Buda YBUI
Acorn	1-2	28	Cont. 15C
Acorn	2½-3	28-29	Buda DW6
Acorn 20P, 30P, 40P	1-1½	29	Cont. 15C
Acorn 30, 40, 45	1½-2-2½	29-30	Cont. S4
Acorn 20P, 30P, 40P	1-1½-2	30	Cont. 16C
Acorn 50	3	30	Buda ETU
Acorn 50P	2½-3	30	Buda DW6
Acorn 70, 100	4-5	30	Buda YBU-I
American	2½	21-24	Wis. VAU
American	4-5	21-24	Wis. EAU
Amer. La Fr. Chief	1½-2½	28-29	Buda DW6
Amer. La Fr.	Others	24-29	Own
Amer. La Fr. Big Chief	5	29	Buda GL6
Amer. La Fr.	5-15	29	Own
Amer. La Fr. 12R, 12, Ch.	3-3½-4	30	Own
Amer. La Fr. W.	3-3½-4	30	Own 2R
Amer. La Fr. Chief, Big Ch.	2-2½-5	30	Own
Amer. La Fr. V, Z6½, U7½	3-6½-7½	30	Own 5R
Amer. La Fr. W 2R	3½	30	Opt.
Amer. La Fr. 5, 7T	TT	30	Own 2R
Amer. La Fr. 10, 13, 15T	TT	30	Own 5R
Armleder	1-2½	18-23	Cont. C4
Armleder	1-1½	20-23	Buda CTU
Armleder	1-2½	23	Buda HTU
Armleder	3½	18-24	Cont. E, E4
Armleder	3½	23-24	Buda YTU
Armleder	1½	25	Herc. OX
Armleder	1½	26	Buda KAJ
		26-27	Herc. OX
Armleder	2½	25	Buda EBUI
Armleder	2½	26-29	Cont. K4
		26-29	Buda EBUI
Armleder	3½-4	25-26	Buda YBUI
Armleder	3	26-29	Buda EBUI
Armleder 30B	1½	27-30	Buda KBU-J
Armleder 30-6	1½	27-29	Buda HS6
Armleder 40	2	27-28	Herc. OX
Armleder 50-6	2½	27-29	Buda BUS
Armleder 60-6	3	27-29	Buda BUS
Armleder 70	4, TT	27-30	Buda YBUI
Armleder 70-6	4	27-30	Buda BUS
Armleder 40-6	2	28-29	Buda HS
Armleder 50, 60	2½-3, TT	28-30	Buda EBU-J
Armleder 30	1½, TT	28-29	Herc. OX
Armleder 30, 40	1½-2, TT	30	Herc. OX
Armleder 30-6, 40-6	1½-2	30	Buda HS6
Armleder 55	2½	30	Cont. K4
Armleder 50-6, 60-6	2½-3	30	Buda BUS
Atco	3½	20-21	Buda YU, YTU
Atco	2-2½	20-23	Buda HU, HTU
Atco	1½	20-23	Buda MU, WTU
Atlas	¾-1	19-22	Lyc.
Atlas	1½-2	21-23	Cont. J4
Atterbury	3½	18-22	Cont. E, E4
Atterbury	5-6	20-23	Cont. B2
Atterbury	1½-2	21-23	Cont. J4
Atterbury	2½-3	22-29	Cont. K4
Atterbury	3½-4	22-29	Cont. L4
Atterbury	1½-2	24-27	Buda KTU
Atterbury	5	24-29	Cont. B7
Atterbury 26B	1-1¼	27-29	Lyc. S
Atterbury 26G4	1½	27-29	Lyc. C4
Atterbury 26G6	1½	27-29	Lyc. 4S
Atterbury 24R	2	28	Buda KBU-I
Atterbury 27R6	2½	28	Lyc. TF
Atterbury 27C6	3	28-29	Lyc. TS
Atterbury 27R6	2½	29	Lyc. TS
Atterbury A6	1	30	Lyc. WRG
Atterbury K6, G6	1½-2	30	Lyc. 4SL
Atterbury H6	2½	30	Cont. 16R
Atterbury 22C	3	30	Cont. K4
Atterbury R6	3	30	Cont. 18R
Atterbury 22D	4	30	Cont. L4
Atterbury C-6	4	30	Cont. 20R
Atterbury 24E	5	30	Cont. B7
Autocar All	1¼-5-TT	18-30	Autocar
Available	2-2½	19-22	Cont. C4
Available	3½	21-23	Herc. MU3
Available	5	21-23	Herc. T3
Available	2½	23	Herc. CU3
Available	1-2½	24-26	Herc. O
Available	3½	24	Herc. MU3
Available	5	24	Herc. T-3
Available	3½	25-26	Herc. L-3
Available	4	25-26	Herc. L
Available	5	25-26	Wau. EU
Bessemer	1½	18-23	Cont. NA
Bessemer	2½	18-23	Cont. C4
Bessemer	4	18-23	Cont. E, E4
Bessemer	1	18-24	Cont. 7N
Bessemer	1-1½	24-25	Cont. N
Bessemer	2-2½	24-25	Hink. HA500
Bessemer	4	24	Cont. E-7
Bessemer	1½	25	Cont. J4
Bessemer	1½	25	Hink. 400
Bessemer	2½	25	Cont. K4
Bethlehem	All	18-27	Bethlehem
Betz	1	19-21	Buda RU
Betz	1	24-26	Betz
Betz	2½	24-26	Betz
Betz J3, F3	1-1½	29	Buda WTU
Betz J3-6	1	29	Buda HS6
Betz D-3	2½	29	Buda ETU
Betz D3-6	2½	29	Buda DW6
Biederman	1	25-28	Cont. 8R
Biederman	1¼-1½-2½	25-27	Cont. 6M
Biederman	3½	25-28	Cont. 6B
Biederman	5	26-27	Cont. 6B
Biederman	1-1¼-1½	28-30	Cont. 8R
Biederman	2½-3½	28-30	Cont. 6B
Biederman	5	28-30	Cont. 7T
Bridgeport	4½-6	21-23	Herc. MU3
Bridgeport	1½	21-25	Buda HU, HTU, WTU
Bridgeport	2-2½	21-25	Buda YU, YTU, ETU
Bridgeport	4	24-25	Buda YTU
Bridgeport	2	27	Buda WTU
Bridgeport	3	27	Buda ETU
Bridgeport G7		27	Buda BTU
Brinton	2½-3	18-22	Buda WU
Brinton	1-2	18-23	Herc. CU3
Brinton	1½	24-26	Cont. N
Brinton	2½	24-26	Cont. C4
Brockway	2½	22-23	Cont. NA
Brockway	2½	22-23	Cont. C4
Brockway	¾-1	20-22	Cont. B2
Brockway	¾-1½	21-23	Cont. E, E4
Brockway	4-5	23	Cont. K4
Brockway	1-1½-2	24-26	Wis. SU
Brockway	2-2½-3	24-26	Cont. K4
Brockway	3-3½-4	24-26	Cont. L4
Brockway	1¼	25-26	Wis. 6Y
Brockway	4	25-26	Cont. B5
Brockway	5	24-27	Cont. B7
Brockway Jr., CJB	1¼-1½	27-30	Wis. C
Brockway	1½	27-29	Wis. SU
Brockway EY, SY, EYW	1½	27-30	Wis. Y
Brockway S, E	2	27-30	Wis. SU
Brockway SK	2	27	Cont. K4
Brockway	2-2½	27-29	Wis. Y
Brockway K	3	27-30	Cont. K4
Brockway KR, R	3	27	Cont. LR
Brockway KHB	3	27	Wis. HB
Brockway	4	27	Cont. LR
Brockway RT	4	27-28	Cont. B5
Brockway RH	4	27	Wis. H
Brockway BT	5½ up	27	Buda BTU
Brockway KW	3	28-30	Wis. H
Brockway	3-4	28-29	Cont. L4
Brockway	4-5	28-29	Cont. B7
Brockway BT	5½ up	28-30	Buda BBU
Brockway	1¼-1½	29	Wis. F
Brockway EN	1½	29	Wis. N
Brockway 75, 90	1¼-1½	30	Wis. C
Brockway 120, 140	3½-4	30	Cont. 30B
Brockway T	5	30	Cont. B7
Brockway 290, 640-6	5½, TT	30	Cont. 16H
Buck	1½-2	26-27	Cont. S4
Buck	1½-2	26	Cont. 8R
Buck	2½	26	Cont. K4
Buck	3-4	26	Cont. L4
Buck	5	26	Cont. B5
Buck	7½	26	Cont. B7
Buck 44	2	27	Cont. S4
Buck 46	2	27	Cont. 8R
Buck 64	3	27	Cont. L4
Buck 66	3	27	Cont. 6B
Buck 84	5	27	Cont. B5
Buck 86	5	27	Cont. 7T
Buck 94		27	Cont. B7
Buck 96		27	Cont. 14H
Chevrolet	All	18-30	Own
Chicago	1½-2½	20-22	Herc. CU3
Chicago	3½-5	19-24	Herc. MU3
Chicago	1½-2½	24	Herc. O
Chicago	1-2½	26-27	Herc. OX
Chicago	3½-5	26-27	Herc. L
Chicago	1½-3	27	Herc. OX
Chicago	3½-4	27	Herc. L
Chicago 70-7, 40C, 70C	4	27	Wau. EU
Chicago	1	28	Wau. XA
Chicago	1½-3	28-30	Wau. V
Chicago 20XL	2	28	Wau. XL
Chicago, 31B, 35C	3-3½	28-30	Wau. CU
Chicago	4	28	Wau. DU
Chicago 64D	5-5½	28-30	Wau. EU
Chicago 16A, 21A, 26A	1½-2½	29-30	Wau. XK
Chicago 32B, 36D, 46D	3-5½ up	29-30	Wau. KU
4-5½ up	29	Wau. EU	Chicago
Chicago 66D	5½ up	29-30	Wau. 6AB
Chicago 15A, 20A, 25A	1½-2-2½	30	Wau. V
Chicago 56D	5½	30	Wau. AB
Clinton	1¼	25-26	Buda WTU
Clinton	2	25-26	Buda KTU
Clinton	3	25-26	Buda ETU
Clinton	4	25-26	Buda YTU
Clinton	5-7½	25-26	Buda BTU
Clinton	1¼-1½	27-28	Wau. V
Clinton	2	27-28	Wau. V
Clinton	2½-3	27-29	Buda DW6
Clinton 65	3	27-28	Wau. CU
Clinton	4	27-28	Wau. DU
Clinton	5	27-28	Wau. EU
Clinton 120SM	5½ up	27-28	Wau. EU
Clinton	3½	28-29	Buda BUS
Clinton 20B, 32	1¼-1½	29-30	Buda WTU
Clinton 45	2	29-30	Buda KTU
Clinton 65	3	29-30	Buda ETU
Clinton 90, 90M	4	29	Buda YTU
Clinton	5-5½ up	29-30	Buda BTU

Digitized by Google

ENGINES—Commercial Vehicles—Continued

Make of Commercial Vehicle	Tonnage	Year	Make of Engine Used
Clinton 65-6	3	30	Buda DW6
Clinton 85-6	3½	30	Buda BUS
Clydesdale	5	19-23	Cont. B2
Clydesdale	¾-1½	20-23	Cont. NA
Clydesdale	2½-3	23-26	Cont. K4
Clydesdale	3½-4	23-25	Cont. L4
Clydesdale	5-7	23-25	Cont. B5
Clydesdale 16, 10A	1-1¼	26-30	Cont. S4
Clydesdale	1¼	24	Cont. N
Clydesdale	1¼	25-26	Cont. J4
Clydesdale	1½	25-29	Cont. 8R
Clydesdale 9	2	25-30	Cont. S4
Clydesdale	3½	25-29	Cont. B5
Clydesdale 2	5	26-30	Cont. B-7
Clydesdale	1¼-2	27-29	Cont. S4
Clydesdale 8	2½	27-29	Cont. K4
Clydesdale 6	3	27-29	Cont. L4
Clydesdale 6X	3	27-29	Cont. K4
Clydesdale 4X	3½	27-29	Cont. L4
Clydesdale 12, 14	1½	30	Cont. 8-R
Clydesdale 8, 6X	2½	30	Cont. K-R
Clydesdale 6, 4X	3-3½	30	Cont. L-R
Clydesdale 4	3½	30	Cont. B5
Coleman	5	26	Buda YBUI
Coleman	2½	27	Buda HS
Coleman 4	5	27-28	Buda YBUI
Coleman	5	27-28	Buda BUS
Coleman	2	28	Buda HS6
Coleman D-40	3	28-30	Buda DW6
Coleman C-25, C-25D	2-2½	30	Buda DW6
Coleman D 40X	3½-5	30	Buda BA
Coleman X100F, F75	5-5½	30	Buda GL
Coleman F75S	5½	30	Buda GF
Commerce	¾-2	21-23	Cont. NA
Commerce	2½	22-24	Cont. K4
Commerce	1½	23-24	Cont. J4
Commerce	1	24-25	Cont. N
Commerce	1	26	Cont. 7U
Commerce	1½-2	25-28	Cont. S4
Commerce	2½	25	Cont. 6B
Commerce	2½	26	Cont. K4
Commerce 8A	1	27-28	Cont. 11U
Commerce	3-3½	27	Cont. 6B
Commerce S11	1-1½-2	29-30	Buda HS6
Commerce	1½-2	29	Buda DS6
Commerce	2½-3	29	Buda BUS
Commerce 80	3½-4	29-30	Buda BA6
Commerce 40Z, 40	1½-2-2½	30	Buda DS6
Commerce 60	1½-3	30	Buda BUS
Concord	2-3	20-23	Buda HU, HTU
Concord	1-2	22-23	Buda IU, ITU
Concord	1-1½-2	24-25	Buda GBU
Concord	1½	26	Buda KBU
Concord	2	26-27	Buda GBU
Concord	2-2½-3	24-26	Buda EBU
Concord K	1	27-28	Buda WTU
Concord	3	27-28	Buda EBU
Concord	1¼	28	Buda HS6
Concord GX	2	28	Buda KBU
Concord GX6, JX6	2	28-30	Buda DW6
Concord JLX-6	3½	30	Buda BA6
Corbitt	1-1½	22-23	Cont. J4
Corbitt	¾-1	22-23	H-SP
Corbitt	2-2½	22-26	Cont. K4
Corbitt	3-3½-4	22-26	Cont. L4
Corbitt	5	22-24	Cont. B5
Corbitt	¾	24	H-SP. 30
Corbitt	1	24-25	Cont. N
Corbitt	1½	24	Buda WTU
Corbitt	1¼	25-26	Cont. S4
Corbitt	1½	25	Cont. J4
Corbitt	5	25	Cont. B7
Corbitt	5	26	Buda BTU
Corbitt 20	1	27-28	Cont. 20L
Corbitt 21	1	27-28	Cont. 11U
Corbitt 25	1½	27-28	Cont. S4
Corbitt	2	27-28	Cont. S4
Corbitt	2-2½	27-29	Cont. K4
Corbitt	3-4	27-29	Cont. L4
Corbitt 70	5	27	Buda BTU
Corbitt	1	28	Cont. 31L
Corbitt 620, 7B6	1¼-1½	28-30	Cont. 18E
Corbitt	1½-2	28	Cont. 15C
Corbitt 56	2½	28	Cont. 6B
Corbitt 70	5	28-29	Cont. B7
Corbitt 630, 9B6	1½-2	29-30	Cont. 16C
Corbitt	2½-3	29-30	Cont. 16R
Corbitt 66	3-4	29-30	Cont. 18R
Corbitt 70S, 86	4-5	29-30	Cont. 20R
Cyclone	1½	22-23	H-SP.
Dart	1½	26	Buda WTU
Dart	2½	26	Buda EBU
Day-Elder	2	18-23	Cont. C4
Day-Elder	5-6	18-23	Buda YTU
Day-Elder	2½-3	18-24	Buda HTU
Day-Elder	4	23-24	Cont. L4
Day-Elder	2½	23-24	Cont. K4
Day-Elder	2	23-24	Cont. J4
Day-Elder	1½-2	23-28	Buda WTU
Day-Elder	5	24	Cont. B5
Day-Elder	2-2½	25-28	Buda KBU
Day-Elder	3	25-26	Buda EBU
Day-Elder	4	25-26	Buda YBU
Day-Elder	5	25-26	Buda BTU
Day-Elder M	1	27	Cont. 11U
Day-Elder H	2	27	Buda WTU
Day-Elder HSM	2	27	Buda KBU
Day-Elder	2½	27	Buda KBU
Day-Elder	3	27-28	Buda EBU
Day-Elder	4	27-28	Buda YBU
Day-Elder	5	27	Buda BTU
Day-Elder	1-2	28-29	Cont. 16C
Day-Elder	3	28	Cont. 6B
Day-Elder	5	28-29	Buda BBU
Day-Elder	3	29	Buda DW6
Day-Elder	4	29	Buda BA6
Day-Elder MF, GF	1¼-1½	30	Cont. 16C
Day-Elder HF	2	30	Cont. 16C
Day-Elder HBF	2	30	Cont. 16C
Day-Elder JF	3	30	Cont. 18R
Day-Elder KF	4	30	Cont. 21R
Dearborn	1½-2	19-23	Buda WU
Dearborn	1-1½	21-23	Buda MU
Defiance	3	23	Cont. C4
Defiance	1½-2	24-26	Cont. J4
Defiance	3	24-26	Cont. K4
Defiance	1½	25-26	Wis. CAU
Defiance	1½	26	Cont. S4
Defiance FRT	1½	27	Defiance
Defiance EVT	2	27	Herc.
Defiance	1¼	28	Cont. 18E
Defiance	1½-2½	28	Cont. 15C
Defiance E2	2½	28	Cont. S4
Defiance	3½	28	Cont. 6B
Defiance RV-45	1¼	30	Cont.
Defiance TT50C	1½	30	Cont.
Defiance TT62T	2	30	Cont. S4
Defiance OX	2½	30	Cont. 6B
Defiance OXH	2½	30	Herc. WXC
Denby	¾-3	18-23	Cont. NA
Denby	3½-7	18-22	Cont. E, E4
Denby	2-3	23	Cont. J4
Denby	3½-5	23	Cont. L4
Denby	2	24-26	Cont. J4
Denby	1-1½	24-29	Herc. O
Denby	3	24-28	Cont. K4
Denby 27	4	24-30	Cont. L4
Denby 210	5	24-30	Cont. B5
Denby	2½	26-29	Herc. O
Denby 41, 41A, 43	1-1½-2½	30	Herc. OX
Diamond	5	23	Cont. B5
Diamond	2-2½	20-22	Hink. 400
Diamond T	¾-1	24-26	Herc. OX
Diamond T	1¼-1½	24-25	Hink. 700
Diamond T	1-2	26-28	Herc. OX
Diamond T	2½	24-25	Hink. 1400
Diamond T	2½	26	Hink. 1500
Diamond T	3½	24-25	Hink. 1500
Diamond T	3½	26	Hink. 200
Diamond T	5	24-26	Hink. B, B-2
Diamond T-U4	2½	27-28	Herc. K
Diamond T-U6	2½	27-28	Herc. L
Diamond T	3-3½	27-28	Herc. L
Diamond T-S2	5	27-28	Herc. G
Diamond T	7½	27-28	Herc. G
Diamond T	1	28-29	Cont. 18E
Diamond T77	1¼-1½	28-29	Herc. WXA
Diamond T 302-2	2	28-30	Herc. WXB
Diamond T-U56	2½	28	Herc. YXB
Diamond T	3-4	28-30	Herc. YXC
Diamond TS7	7½	28	Buda BTU
Diamond T550, T505	2½	29-30	Herc. WXC
Diamond T	5½ up	29	Wau. RB
Diamond T-215	1	30	Buda
Diamond T-200	1	30	Buda
Diamond T-290	1½	30	Herc. WXA2
Diamond T-1000	5	30	Herc. YXC2
Diamond T-1600, 6 Whl.	5½	30	Herc. YXC3
Diamond T-2500, 6 Whl.	5½	30	Wau. 6RB
Dixon	1½-2	23-25	Cont. J4
Dixon	1½-2	26	Cont. S4
Dixon	1½	22	Cont. E, E4
Dixon	2½	23-26	Cont. K4
Dixon	3½-5	23-25	Cont. L4
Dixon	3½	26	Herc.
Dixon	5	26	Herc.
Dixon	2	27-29	Herc. OX
Dixon	3-3½	27-30	Herc. G
Dixon	5	27-30	Herc. G
Doane	3½	21-23	Wau. CU
Doane	6	23	Wau. EU
Dodge	All	18-29	Own
Dodge Brothers	1½-3	30	Own
Douglas	1½	20-29	Weld.
Douglas	2-3	20-29	Buda HTU
Douglas	1½	23	Buda WU
Douglas	1½	27-29	Buda WTU
Douglas	1½	27-29	Buda HS6
Douglas	2	27-29	Buda KBUI
Douglas	3	27	Buda EBUI
Douglas	3	27-29	Buda BUS
Douglas	5	27-29	Buda BBU
Douglas	2	28-29	Buda DW6
Douglas	3	28-29	Buda YBUI
Douglas	3-5	28-29	Buda BA6
Douglas 6 Whl.	5	29	Buda GL6
Duplex	3½	18-23	Buda HU, HTU
Duplex	1-1½	23-29	Buda WTU
Duplex	1½	20-24	Hink. 400
Duplex	2	24-26	Hink. HAA
Duplex	3½	24	Buda ETU
Duplex	3-3½	25-26	Buda EBUI
Duplex GS	1½	27-30	Buda HS6
Duplex S	2	27-30	Buda DW6
Duplex FAC	3	27-30	Buda EBUI
Duplex SAC	3	27-30	Buda BA6
Duplex EF	3½	27-30	Buda EBUI
Duplex M5-7	5	29-30	Buda GL6
Durant Com. Ch.	½	29-30	Cont.
Eagle	2-3	22-23	Buda CTU
Eagle	½	23	Buda MU
Eagle	1¼	24-26	Buda WTU
Eagle	2	24	Buda GTU
Eagle	2-2½	25-26	Buda KTU
Eagle	3½	26	Buda YTU
Eagle 102	2	27-28	Buda WTU
Eagle 105	3	27-28	Buda KTU
Eagle 106	5	27-28	Buda YTU
Eagle 107	5½ up	27-28	Buda BTU
Eagle 10	1	28	Lyc. CT
Eagle 6-10, 6-25	1½-2½	30	Cont. 18E
Eagle 6-20	3	30	Herc. WXB
Eagle 6-30	4	30	Herc. WXC
Eagle 6-40	5	30	Herc. YXC
Fageol	1½	20-22	Wau. BUX
Fageol	1½	26-28	Wau. V
Fageol	2½-3	18-23	Wau. BU4R
Fageol	2½-3	22-25	Wau. CU
Fageol	3½-6	18-26	Wau. DU
Fageol	2	24-26	Wau. FU
Fageol	3	26	Wau. CV
Fageol	2	24-26	Ha-S 360
Fageol	2½	27	Wau. V
Fageol 340	3	27-30	Wau. CU
Fageol 370	3	27	Wau. KL
Fageol 445	4	27-30	Wau. DU
Fageol 485	4	27-30	Wau. AB
Fageol 10-66, A-C	5½ up	27-30	Wau. AB
Fageol 645	5½ up	27-29	Wau. DU
Fageol 685	5½ up	27-29	Wau. AB
Fageol 135	2	28-30	Wau. XL
Fageol 250	2½	28-30	Wau. XK
Fageol 370-365	3	28-30	Wau. KS
Fageol	1¼	29	Wau. XA
Fageol 130	2	29-30	Wau. V
Fageol	3	29	Wau. KU
Fageol 106	1¼	30	Wau. TS
Fageol 370, 470	3-4	30	Wau. SRL
Famous	1-1½	19-22	Cont. 7N
Famous	1½	20-23	Cont. NA
Fargo	2	19-22	Cont. NA
Fargo Packet	½-1	29-30	Own
Fargo Clipper	¾	29-30	Own
Federal	2-5	21	Cont. B5
Federal	1-1½	19-26	Cont. J4
Federal	2-3	22-29	Cont. K4
Federal	3	26-27	Cont. 6B
Federal	2-3½	22-24	Cont. L4
Federal Knight	1	25-27	Federal-Knight
Federal Knight	1½-2	26-27	Federal-Knight
Federal	4	25-26	Cont. L4
Federal	5-6	25-26	Cont. B5
Federal Scout	1	27-29	Wau. X
Federal 51	2	27	Knight
Federal	4	27-29	Cont. L4
Federal X8	5½ up	27-29	Cont. B7
Federal F6	1	28	Cont. 30L
Federal A6, F7	1½-2½	28-30	Cont. 16C
Federal	2-2½	28-29	Wau. V
Federal UL7	3½	28-29	Cont. L4
Federal 2K6	3½	28	Wau. 6KS
Federal 3B6	3½	28	Cont. 6B
Federal LD	TT	28-29	Cont. K4
Federal HD	TT	28-29	Cont. L4
Federal 4FW	1	30	Wau. XA
Federal E6	1	30	Cont. 17E
Federal T10B, T10W	2½-3	30	Cont. 16R
Federal U6	3-3½	30	Cont. 18R
Federal 4C6-A, 4CAB	4-5	30	Cont. 20R
Federal X8	7½	30	Cont. B7
Federal X8R	7½	30	Cont. 21R
Fisher F.F.	1½	26-30	Cont. S4
Fisher Jr. Exp.	1	27	Cont. 20L
Fisher M. Exp.	2	27-28	Cont. S4
Fisher H. D.	2½	27-29	Cont. 6R
Fisher Jr. Exp.	1	28-30	Cont. 31L
Fisher Mer. Ex.	2	29	Cont. 15C
Fisher Mer. Ex.	2	30	Cont. 16C
Fisher Heavy Duty	2½	30	Cont. 16R
Fisher Super 6	3½	30	Cont. 18R
Fisher Super 6	3½	30	Cont. 20R
Flint	1½	26	Herc. O
Ford	½-1	18-29	Own
Ford AA	1½	30	Own
Freeman DW 144	3	29-30	Buda DW6
Freeman BA	5	29-30	Buda BA6
Freeman GL	5½	30	Buda GL6
Front Drive	1½	20-26	Buda CTU

Digitized by Google

ENGINES—Commercial Vehicles—Continued

Make of Commercial Vehicle	Tonnage	Year	Make of Engine Used
Front Drive	1½	27-29	Buda WTU
Fulton	2	23	Buda MU
Fulton	2-3	21-23	H-SP.
Fulton	1	24	Buda MU
Fulton	1-2	24-25	Buda WTU
F. W. D., H, H4, BTL	1½-2	27-30	Wis. SU
F.W.D.	3	18-26	Wis. A
F.W.D.	3-3½	27-29	Own
F.W.D.	3½-5-5½ up	29-30	Wau.
F. W. D. H6	2	30	Wau. XL
F. W. D. HH6	2½	30	Wau. XL
F. W. D. B	3	30	Own A
Garford	1-1¼	20-23	Buda WU
Garford	2-4½	20-23	Buda HTU
Garford	3½	20-24	Buda YTU
Garford	¾	22-24	Buda MU
Garford	5-7½	22	Buda BTU
Garford	1½-2	24-28	Buda KTU
Garford	1½	25	Buda KBUI
Garford	1	26	Buda MU
Garford	2½	25-28	Buda EBUI
Garford	3½	25	Buda YBUI
Garford	4-7, TT	26-28	Buda BTU
Garford 20	1	27-28	Buda WTU
Garford 100	5	27	Buda BTU
Garford 150W		27	Buda BTU
Garford 20-6	1	28	Buda HS6
Garford 30-6	1½-2	28	Wis. Y
Garford 50-6, 60	2½-3	28-30	Buda BUS
Garford 50	TT	28	Buda EBU-I
Garford S11	1-2	29-30	Buda HS6
Garford 40	1½-2½	29-30	Buda DS6
Garford	3½-5½	29-30	Buda BA6
Gary	2½	20-23	Buda HTU
Gary	1½-2	20-22	Buda IU, ITU
Gary	3½	20-23	Buda YTU
Gary	5	20-26	Buda BTU
Gary	1	24-26	Buda WTU
Gary	1½	26	Buda KBUI
Gary	2	24	Buda GTU
Gary	2½	24-26	Buda EBU, EBUI
Gary	3-3½	24-26	Buda YBU, YBUI
Gary	3	26	Buda BUS
Gary B50		27	Buda BTU
General Motors	1	21-26	G. M. C.
General Motors	2-2½	21-26	G. M. C.
General Motors	3½-5	21-26	G. M. C.
General Motors	1-1½	27	G. M. C.
General Motors	1-1½	27-29	Buick Std.
General Motors	2-2½	27-28	G. M. C.
General Motors	2	27-29	Buick Master
General Motors	3½ up	27-28	G. M. C.
General Motors	½-1	28-29	Pontiac
General Motors	3	29	Buick
General Motors	5TT	29	Own 89
General Motors	½-1½	30	Pontiac
General Motors	¾-5½	30	Buick
General Motors	5	30	Own
General Motors	5½	30	Own RB-36
Gotfredson	1-1½	24-28	Buda WTU
Gotfredson	2-2½	24-29	Buda KBUI
Gotfredson	3	24-29	Buda EBUI
Gotfredson RW84A	3½-4	24-30	Buda YBUI
Gotfredson	5	24-26	Buda BTU
Gotfredson A6	2	27	Buda BUS
Gotfredson 56	2½	27	Buda BUS
Gotfredson 66	3	27	Buda BUS
Gotfredson 86	4	27-28	Buda GL6
Gotfredson 100	5-5½ up	27-29	Buda BBU
Gotfredson 106	5-5½ up	27-29	Buda GL6
Gotfredson 36B	1½	28	Buda HS6A
Gotfredson	2-3-3½	28-29	Buda BA6
Gotfredson RB241	1¼	29-30	Buda WTU
Gotfredson	1½	29	Buda HS6
Gotfredson	2½-3	29	Buda DW6
Gotfredson	1¼-5	30	Own
Gotfredson RW44, RW54	2½-3	30	Buda KBU-I
Gotfredson RW64A	3½	30	Buda EBU-I
Gotfredson RW104A	5½	30	Buda BBU
Gotfredson RW106A	5½	30	Buda GL6
Graham Bros.	1½	19-21	Cont. NA
Graham Bros.	All	22-27	Dodge
Gramm	1-1½	27	Lyc. CT
Gramm 263N	1-1¼	27	Cont. 8R
Gramm	1½-2	27	Cont. 8R
Gramm	2-2½	27	Lyc. C4
Gramm 564N	2½	27	Cont. 8R
Gramm	2½-3	27	Cont. 6B
Gramm	3-4	27-29	Herc. L
Gramm	4-5	27	Cont. 6B
Gramm 60	5-5½	27-30	Herc. G
Gramm	1-2	28-29	Lyc. S
Gramm	2½-5½	28-29	Lyc. TS
Gramm	TT	28-30	Lyc. TS
Gramm	TT	28-29	Herc. L
Gramm	TT	28-29	Herc. G
Gramm	5½ up	29	Lyc. TS
Gramm	5½ up	29	Herc. G
Gramm	5½ up	29	Cont. B7
Gramm B140	1½	30	Lyc.
Gramm C-160, D-160	2-2½	30	Lyc. TS
Gramm E-150	3	30	Lyc. ST
Gramm EY	3	30	Cont. 20R
Gramm-Bern.	5	20-22	Cont. B2
Gramm-Bern.	2	20-22	Cont. C4
Gramm-Bern.	1¼	21-22	Lyc.
Gramm-Bern.	2½-3	20-22	Hink. 40C
Gramm-Bern.	1½	20-23	Cont. NA
Gramm-Bern.	2	23-25	Cont. J4
Gramm-Bern.	2-2½	23	Cont. K4
Gramm-Bern.	101-1¼	24-30	Lyc. CT
Gramm-Bern.	1½	24-26	Lyc. C4
Gramm-Bern. 125	2½	26-30	Cont. S4
Gramm-Bern.	3½-4	24	Hink. HA200
Gramm-Bern.	3-4	24-26	Cont. L4
Gramm-Bern.	5	25-26	Cont. B2
Gramm-Bern.	1-1¼	27-29	Lyc. CT
Gramm-Bern. 115	1½-2	27-30	Lyc. C4W
Gramm-Bern.	2	27	Cont. 11U
Gramm-Bern. 30, 40	3-4	27-30	Cont. L4
Gramm-Bern. 50	5-5½	27-30	Cont. B7
Gramm-Bern. 115S	2	28-30	Cont. 15C
Gramm-Bern.	2½-3	28-30	Cont. K4
Gramm-Bern. C6	2½-3	28-30	Cont. 6B
Gramm-Bern. B6	2-2½	29-30	Cont. 16C
Gramm-Bern.	3½-4-5	29	Cont. L4
Gramm-Kinc.	1-1½	26	Lyc. CT (4)
Gramm-Kinc.	1-1½	26	Cont. 8R (6)
Gramm-Kinc.	2-2½	26	Lyc. C4 (4)
Gramm-Kinc.	2-2½	26	Cont. 8R (6)
Gramm-Kinc.	3-4	26	Herc. L
Grass Premier	1-1½	25-29	Lyc. CT
Grass Premier	1½-2½	25-27	Lyc. C
Grass Premier	1½-2	25	Wau. V
Grass Premier	1½	26	Wau. FU
Grass Premier	2	26	Wau. V
Grass Premier	2½	25-26	Wau. CU
Grass Premier	2½	26	Lyc. C
Grass Premier	3½	25-26	Wau. DU
Grass Prem. 50	2	27	Lyc. C
Grass Premier 50-6	2	27	Lyc. TF
Grass Prem. 55	2½	27	Lyc. C
Grass Premier 52-6	2-2½-3	27-29	Lyc. TS
Grass Prem. 80	3-4	27-29	Wau. CU
Grass Premier 80-6	3-4	27-29	Wau. 6KU
Grass Prem. 90	4	27-28	Wau. DU
Grass Premier 90-6	4	27-29	Wau. 6D
Grass Premier	1-1½	28-29	Lyc. S
Grass Prem. 45	1½-2-3	28-29	Lyc. C4
Grass Premier 51-4	2½	28	Wis. X
Grass Premier 90-6	4-5	28-29	Wau. 6AB
Grass Premier	2½	29	Wau. CR
Grass Premier	2½	29	Wau. 6-KS
Grass Premier	5	29	Wau. ER
G-P 42-6	1½	30	Lyc. 4SL
G-P 47-6	2	30	Lyc. TH
G-P 48-8	2	30	Lyc. HD
G-P 57-6	2½-3½	30	Wau. KU
G-P 54-8	3	30	Own
G-P 100 S-W	5½	30	Wau. 6RB
G-P 52-6	3	30	Lyc. TS
G-P 57-4	2½	30	Wau. CR
G-P 92-4	5	30	Wau. ER
Guilder	1¼	25-26	Buda WTU (4)
Guilder	1¼-1½	25-26	Cont. 8R (6)
Guilder	1½	25	Buda KTU
Guilder	2	25	Buda GTU
Guilder E	2	26-30	Buda KBUI
Guilder	2¼	26	Cont. 6R
Guilder	3	25	Buda ETU
Guilder H	3	26-30	Buda EBUI
Guilder J	4	25-30	Buda YTU
Guilder	5	26	Buda YTU
Guilder	5-7	25	Buda BTU
Guilder	6	26	Buda BTU
Guilder B	1¼-1½	27-29	Buda WTU
Guilder B6	1¼	27	Cont. 8R
Guilder C6	1½	27	Cont. 8R
Guilder D6	2-2½	27-28	Buda HS-6
Guilder E	2	27-29	Buda KBUI
Guilder E6	2½	27	Cont. 6B
Guilder H	3	27-29	Buda EBUI
Guilder J	4	27-29	Buda YTU
Guilder K5	5	27-29	Buda YTU
Guilder L6	7	27-29	Buda BTU
Guilder	1½-2½	28-29	Buda HS6
Guilder E6	3	28-29	Buda DW6
Guilder B6	1½	30	Herc. WXA
Guilder C6	2	30	Herc. WXA2
Guilder E6	2½	30	Herc. WXB
Guilder H6	3	30	Herc. WXC
Guilder J6	4	30	Herc. WXC
Guilder K6	5	30	Herc. YXC2
Guilder L6-7	5½	30	Buda BTU
G. W. W.	1½	23	Weid.
G. W. W.	1½-2	24-25	Wisc. SU
Hahn	1½-2	19-22	Cont. C4
Hahn	3½-5	19-22	Cont. B2
Hahn	2-3½	19-22	Cont. E, E4
Hahn	1	20-22	Cont. NA
Hahn	2-2½	23-28	Cont. K4
Hahn	3-5	23-26	Cont. L4
Hahn	1¼-1½	25-26	Herc. OX
Hahn	5	25-26	Cont. B5
Hahn	1-2	27-29	Herc. O
Hahn B2	1	27	Herc. OX
Hahn O	1½	27	Herc. OX
Hahn K	2-2½	27-28	Cont. K4
Hahn L	3	27-29	Cont. L4
Hahn M	4	27-29	Cont. L
Hahn R	5	27-29	Cont. B5
Hahn N	5½ up	27-29	Cont. B5
Hahn	1-1½	28-29	Buda HS6
Hahn	2	28-29	Buda HS
Hahn 56	2½	28-29	Cont. 6B
Hahn	2½	29	Herc. L
Hahn	3½	29	Herc. YXC
Hahn 37H, 37HL	2	30	Cont. 15C
Hahn 39H, 39HL	3	30	Cont. 16R
Hahn 47HB	3½-4	30	Cont. 18R
Hahn 17H	5	30	Cont. 21R
Hahn 7H, 37HL	1	30	Cont. 29L
Hahn 17H	1½	30	Cont. 18E
Harvey	3½-5	19-24	Buda YTU
Harvey	2½	24	Buda ETU
Harvey WG	2½	25-30	Buda EBUI
Harvey WHC	3½, TT	25-30	Buda YBUI
Harvey	3, TT	27-29	Buda EBUI
Harvey WG6	2½	28-30	Buda DW6
Hawkeye	3	19-23	Buda HU, HTU
Hawkeye	1½	23	Buda CTU
Hawkeye	3½	21-24	Buda YU, YTU
Hawkeye	1	23	Buda MU
Hawkeye	1½	24	Buda WTU
Hawkeye	2½	24	Buda ETU
Hawkeye 36	1½	27-30	Buda HS6
Hawkeye 30	1½	27-30	Buda WTU
Hawkeye 56	2½	27-28	Buda BUS
Hawkeye 50-48	2½	27-30	Buda EBUI
Hawkeye 50-60	2½	28-30	Buda DW6
Hawkeye 50-75	2½	29-30	Buda BA6
Hendrickson	2½-3	20-21	Buda HU, HTU
Hendrickson	1½	22-23	Buda MU
Hendrickson	5	21-23	Wau. EU
Hendrickson 5Q	2	27	Buda KTU
Hendrickson	2½-3	27-29	Buda ETU
Hendrickson U4	4	27-28	Buda YTU
Hendrickson V4	5	27-29	Wau. EU
Hendrick. SW10		27-29	Wau. EU
Hendrick. SW6		28-29	Buda BA6
Hendrick. SW10		28-29	Buda GL6
Hendrickson	3	29	Buda EBUI
Hendrickson	4	29	Buda YBUI
Hendrickson ST6, 7-6	2½-3	30	Buda DW6
Hendrick. U-6	4	30	Buda BA6
Hendrickson SSW, MSW	5½	30	Buda BA6
Hendrick. SW10	5½	30	Wau. EU
Hendrickson SW610	5½	30	Buda GL6
Huffman	1½	20-23	Buda WU
Huffman	1½	20-23	Cont. NA
Huffman	3½	23	Buda HU, HTU
Huffman EH	1½	27-30	Herc. OX
Huffman EW	1½	27-30	Wis.
Huffman BC	2	27-30	Cont. S4
Huffman BH	2	27-30	Herc. OX
Hug 22	1½-2	28-30	Buda HS6
Hug	1½	23-24	Buda WTU
Hug	1½	25	Wau.
Hug	2-2½	25	Buda WTU
Hug 60	2	26-30	Buda WTU
Hug	2½	26	Buda KTU
Hug	1½-2	27-29	Buda WTU
Hug 30	2½	27	Buda HS6
Hug 81, 84	2½	27-30	Buda KBUI
Hug	3-3½	27	Buda DS6
Hug	2½-3½-5	28-30	Buda DW6
Hug 66, 67	2	30	Buda HS6
Hug 98, 6 Wheel	5½	30	Buda GF6
Hug C97, 6 Whl	5½	30	Buda BA6
Hug 486	TT	30	Buda DW6
Hurlburt	2-3½	19-24	Buda HU
Hurlburt	4½-5	20-24	Buda YTU
Hurlburt	1¼	24	Buda WTU
Hurlburt	6	24	Buda ATU
Ind. Ohio	1	19-23	Cont. 7N
Ind. Ohio	2-2½	19-23	Cont. C4
Ind. Ohio	2-3½	20-23	Cont. E, E4
Ind. Ohio	1½	20-23	Cont. NA
Indiana	7	23-24	Wau. EU
Indiana	1-2½	24-30	Herc. OX
Indiana	2-2½-3	24-25	Indiana
Indiana	2½-3	26	Herc. L
Indiana	3½-4	24-26	Wau. DU
Indiana	3½	25	Indiana

Digitized by Google

ENGINES—Commercial Vehicles—Continued

Make of Commercial Vehicle	Tonnage	Year	Make of Engine Used
Indiana	5	25-26	Wau. EU
Indiana 611	1	27	Cont. 11U
Indiana 6111	1½	27	Cont. 11U
Indiana 115	2-2½	27	Herc. O
Indiana 615	2-2½	27-30	Wis. Y
Indiana	3	27-28	Wis. HB
Indiana	3-4	27-30	Wis. H
Indiana	3-3½	27-28	Herc. L
Indiana 41	5	27-30	Herc. G
Indiana	1¼-1½	28	Cont. 12C
Indiana 127AW	3	28-30	Herc. K
Indiana 641	5½	28-30	Wis. Z
Indiana 200, 800	1½	30	Wis. F
Indiana	2½-4	30	Herc. L
Indiana 627W	3	30	WXC
Indiana	5½-TT	30	Cont. 16T
Inter. Harv.	¾-1	21-26	Lyc. Spec.
Inter. Harv.	1-5	21-26	Int. Harv.
Inter. Harv.	1½	26	Lyc. Spec.
Inter. Harv. Del.	¾	27-28	Wau. X
Inter. Harv. S-24	1¼	27-30	Lyc. CT
Inter. Harv. S-26	1¼	27	Lyc. 4SG
Inter. Harv. 33	1½	27-28	Own 33
Inter. Harv. 34	1½	27-30	Lyc. CT
Inter. Harv. 36	1½	27	Lyc. 4SG
Inter. Harv. 43	2	27	Own
Inter. Harv.	2	27-30	Lyc. CT
Inter. Harv. SF46	2	27	Lyc. 4SG
Inter. Harv.	Others	27-29	Own
Inter. Harv.	3½-5	27	Own
Inter. Harv.	1¼-2	28-30	Lyc. 4SL
Inter. Harv.	¾-1	29-30	Wau. XA
Inter. Harv.	2½-TT	29-30	HaS 151
Inter. Harv.	3½-5, TT	29-30	HaS 152
Jumbo	2-3	19-24	Buda HU, HTU
Jumbo	1½-2	21-24	Buda CTU
Jumbo	3½-5	21-24	Buda YTU
Jumbo	1½	24	Buda WTU
Jumbo	3	24	Buda ETU
Jumbo	3½	24	Buda YBU
Kalamazoo	1½	20-23	Cont. NA
Kalamazoo	2½-3	20-23	Wis. TAU
Kalamazoo	5	23	Wis. VAU
Kearns	1½	20-23	H-SP.
Kearns	1	24	H-SP. 7000
Kearns	2	24-26	Herc. O
Kearns	3½-5	24-26	Wis. VAU
Kearns	1½	25-26	Herc. OX
Kearns	2½	25-26	Herc. L
Kelly-Springfld.	All	19-26	Kelly-Spr.
Kelly-Springfld.	2½	24-26	Cont. L5
Kelly-Springfld.	1½	25-26	Cont. K4
Kelly-Springfld.	1½-2	27-28	Herc. OX
Kelly-Springfld.	2½	27-28	Herc. K
Kelly-Springfld.	3½	27-28	Herc. L
Kelly-Springfld.	5-5½	27-28	Own
Kenworth	2½	23	Buda HTU
Kenworth	1½	23	Buda ITU
Kenworth	3½	23	Buda YTU
Kenworth	2	24-26	Buda KBU
Kenworth	3	24-29	Buda EBU
Kenworth	4	24-30	Buda YBU
Kenworth	1-1½	25-29	Buda WTU
Kenworth	5	25-29	Buda BTU
Kenworth	2	28-29	Buda HS6
Kenworth	2½	28	Buda KBU-I
Kenworth G	3	28-29	Buda DW6
Kenworth	10	28-30	Wau. GU
Kenworth	2½-3	29-30	Herc. WXC
Kenworth	5½ up	29	Wau. GU
Kenworth 70	1	30	Cont. 18E
Kenworth 100	1½	30	Buda HS-6
Kenworth 125	2	30	Herc. WXB
Kenworth 185	3	30	Herc. YXC
Kenworth 345, 6 Wheel 10	10	30	HaS 155
Kenworth NT	TT	30	Buda GL-6
Kimball	1½-2	19-24	Wis. EAU
Kimball	4	21-24	Wis. RAU
Kimball	3-4	21-24	Wis. VAU
Kimball	2½	24	Wis. WAU
Kimball	5	24	Wis. RBU
Kimball	2½	25-26	Wis. UAU
King-Zeitler	1	22-23	Cont. 7N
King-Zeitler	¾-2	22-23	Cont. NA
King-Zeitler	2½	22-23	Cont. C4
King-Zeitler	5	23	Cont. B2
King-Zeitler	3½	22-23	Cont. E, E4
King-Zeitler	1-1½	24-25	Cont. J4
King-Zeitler	2½	24-25	Cont. K4
King-Zeitler	3½	24-26	Cont. L4
King-Zeitler	5	24-26	Cont. B5
King-Zeitler	1-2½	25-30	Cont. S4
King-Zeitler	2	26	Cont. 6M (6)
King-Zeitler	3	26-29	Cont. K4
King-Zeit. 22A	1	27	Cont. 20L
King-Zeit. 42A	2	27	Cont. 11U
King-Zeit. 62A	3	27-29	Cont. 6B
King-Zeitler 75	3½	27-29	Cont. L4
King-Zeitler 90	5	27	Cont. B5
King-Zeit. 22A	1	28	Cont. 31L
King-Zeitler	2	29-30	Cont. 15C
King-Zeitler 60	3	30	Cont.
King-Zeit. 62A	3	30	Cont. 18R
King-Zeitler 75	3½	30	Cont. 20R
Kissel	2-5	19-24	Kissel
Kissel	1-1½-2½	24-30	Kissel
Kissel	4	26-27	Kissel
Kissel	5	25-26	Buda BTU
Kissel	4-5	27-30	Wau. DU
Kleiber	2½	18-22	Cont. E, E4
Kleiber	5	18-23	Buda BTU
Kleiber	1	23-26	Cont. J4
Kleiber	1½	23-26	Cont. K4
Kleiber	2½-3½-4	23-25	Cont. L4
Kleiber	2½-3	26	Cont. L4
Kleiber	3½-5	26	Cont. B5
Kleiber	5	24-25	Cont. B5
Kleiber	1½-2	27-28	Cont. 8R
Kleiber	2	27-30	Cont. K4
Kleiber	2½-3	27-30	Cont. L4
Kleiber Spec.	3	27-30	Buda BUS
Kleiber	3½	27-30	Cont. B5
Kleiber	5	27-30	Cont. B5
Kleiber	¾-1-1½-2	28-30	Cont.
Kleiber Speed	1½-2½	28-30	Buda
Kleiber Speed	3	28	Cont. 6B
Kleiber Speed	3	29-30	Cont. 18R
Kleiber	4	29-30	Buda BA6
Kleiber 22DD, 6 Wheel	TT	30	Cont. 18R
Kleiber 28DD, 6 Wheel	TT	30	Cont. 20R
Kleiber 34DD, 6 Wheel	TT	30	Cont. 21R
Kleiber 34DDT, 6 Wheel	TT	30	Buda BF6
Koehler	2½-5	19-23	Herc. CU3
Koehler	1¼	20-23	H-SP.
Koehler	3½	22-23	Herc. MU3
Krebs	¾-1	22-23	Cont. NA
Krebs	1½	22-23	Cont. C4
Krebs	2½-4	22-23	Cont. E, E4
Krebs	5	23	Cont. B2
Krebs	1¼	24	Cont. J4
Krebs	2½-3-4	24-25	Cont. L4
Krebs	5	24-25	Cont. B5
Krebs	1½-2	25	Cont. S4
Krebs	1½-2	25	Cont. 8R
Krebs	2½	25	Cont. K4
Krebs	6	25	Cont. B7
Lange	2-2½	19-23	Cont. C4
Lange	2-2½	22-25	Cont. K4
Lange	3	23-25	Cont. L4
Lange	1½	24-28	Cont. J4
Lange	2½	26	Cont. J4
Lange	3	26	Cont. 6B
Lange	3½	26	Cont. L4
Lange K	1½	27	Cont. 11U
Lange G	2	27	Cont. J4
Lange E	2½-3	27-28	Cont. K4
Lange H	3	27-28	Cont. 6B
Lange F	3½	27-28	Cont. L4
Lange K	1½	28	Cont. 15C
Lange M	3-4	28-30	Herc. YXC
Lange H-1, F-6	3	28-30	Herc. YXB
Lange L	2	28	Buda DW6
Lange R	1½	29-30	Herc. WXB
Lange L	2	29-30	Herc. YXA
Lange T, TA	5	30	Herc. YXC2
Larrabee	1½	20-23	Cont. NA
Larrabee	1-2½	18-21	Cont. C4
Larrabee	3½-5	18-21	Cont. E, E4
Larrabee	5	20-22	Cont. B2
Larrabee	1	20-21	Cont. 7R
Larrabee	2½	22	Cont. K4
Larrabee	1½-2¼	23	Cont. J4
Larrabee	5	23	Cont. B5
Larrabee	1-1¼-1½	23-26	Cont. 8R
Larrabee	2½-3½-5	23-25	Cont. L4
Larrabee	2¼	25-26	Cont. 6B
Larrabee	2½	26	Cont. L-4
Larrabee	3½	26	Cont. B-5
Larrabee A3	1	27-28	Cont. 11U
Larrabee	1½-2	27-28	Cont. 8R
Larrabee	2½	27	Cont. L4
Larrabee XH25	3	27-28	Cont. 6B
Larrabee X33S	2	28	Cont. 15C
Larrabee	1-1½	29-30	Cont. 16C
Larrabee	2-2½	29	Cont. 16R
Larrabee Deyo	3	29-30	Cont. 18R
Larrabee	3½	29-30	Cont. 20R
Larrabee 80	5	30	Cont. 21R
Larrabee 40, 50	2-2½	30	Cont. 15R
Lehigh	2	26	Herc. OX
Lehigh	2	27	Herc. O
Lehigh 6S	2	27	Buda HS-6
LeMoon	1-1½-2	25-26	Cont. S4
LeMoon	2½	25-28	Cont. K4
LeMoon	3½	25-28	Cont. L4
LeMoon	5	25-26	Cont. B5
LeMoon	1-1½-2	28	Cont. 12C
LeMoon	2-3	28	Cont. 6B
LeMoon	3½	28	Cont. 8T
LeMoon	5	28	Cont. B7
LeMoon	1½	29-30	Cont. 16C
LeMoon	2-2½	29-30	Wau. 6XK
LeMoon	2½-5	29	Wau. 6KU
LeMoon	5½ up	29	Wau. 6AU
LeMoon	5½ up	29	Wau. 6KB
LeMoon H100	5½	30	Wau. 6AB
Luedinghaus	1	21-23	H-SP.
Luedinghaus	1½	21-23	Wau. BUX
Luedinghaus	2	21-23	Wau. BU4R
Luedinghaus	3½-5	23-25	Wau. DU
Luedinghaus	1	24	Wis. X
Luedinghaus	1½	24-26	Wau. Y
Luedinghaus	2½	24-25	Wau. RU4R
Luedinghaus	5	24-26	Wau. EU
Luedinghaus	1	25	Wau. X
Luedinghaus	1-1½	26-30	Wau. V
Luedinghaus	2½	26-30	Wau. FU
Luedinghaus	3½	26-30	Wau. DU
Luedinghaus	5	27-30	Wau. EU
Maccar	1½	18-21	Cont. C4
Maccar	5½	18-22	Cont. B2
Maccar	2-3½	18-22	Cont. E, E4
Maccar	1½	22	Cont. K4
Maccar	3-4	22-23	Cont. L4
Maccar	3-4	21-28	Wis. VAU
Maccar	1¼	24-26	Wis. SU
Maccar	2	24-25	Wis. TAU
Maccar	2-2½	26-29	Wis. Y
Maccar	2-3	24-25	Wis. UAU
Maccar	5	24-30	Wis. RBU
Maccar 36	1¼-2	27-30	Buda HS
Maccar 64	3	27	Wis. UAU
Maccar	3-4	27-28	Buda BUS
Maccar 96	4	27	Wis. H6
Maccar 64	3-4	28-30	Buda YBUI
Maccar	4-5½	29-30	Buda BA6
Maccar 66	3	30	Buda BA
Mack	All	18-30	Mack
Mason Rd. Kg.	1½	23-25	H-SP. O
Master	2	18-23	Buda HTU
Master	2-6	18-23	Buda YTU
Master	1-1½	24-29	Buda WTU
Master	2½-3½	24-25	Buda EBU
Master	5-6	24-26	Buda YBU
Master	1½	25-29	Buda KBUI
Master	2½-4	25-29	Jackson
Master	3	26	Buda EBUI
Master	3½	26-28	Buda YBUI
Master	5½	26	Buda BTU
Master 41A	2½	27-29	Buda ETU
Master 61	3½	27-29	Buda BTU
Master	5	27-28	Buda BTU
Maxwell	2-3½	18-24	Maxwell
Menominee	1½-2	20-23	Wis. TAU
Menominee	1-2	23-29	Wis. SU
Menominee	3½	20-24	Wis. VAU
Menominee	5	20-24	Wis. RAU
Menominee	2½	25-27	Wis. TAU
Menominee HX	2	28-29	Wis. W
Menominee N	3½	28	Wis. HB
Menominee	2½	29	Wau. 6XK
Menominee	3½	29	Wau. 6KS
Moreland	3½-5	20-21	Cont. B2
Moreland	2-2½	22-26	Cont. K4
Moreland	3-3½	22-26	Cont. L4
Moreland	5	22-26	Cont. B5
Moreland	1-1½	24-26	Herc. OBX
Moreland	1½-2	27	Cont. 11U
Moreland	2½	27-28	Cont. 6B
Moreland	4	27	Cont. 6B
Moreland SX4	6	27	Buda B5
Moreland SX6	6	27	Cont. 14T
Moreland TX4	10	27	Cont. B7
Moreland TX6	10	27	Cont. 14H
Moreland	1½-3	28-30	Cont. 16C
Moreland HD6	4-5½	28-30	Herc. YXC
Moreland SB6-10		28	Cont. 16T
Moreland TD6-10		28	Cont. 15H
Moreland Ace	1¼	30	Cont. 34L
Moreland	3½-5½	30	Herc. WXC
Moreland SD6	5½	30	Herc. YXC2
Moreland TD6	5½	30	Cont. 15H
Nash	2	18-21	Buda HU
Nash	1-2½	18-23	Jeffery
Nash	1-2	24-27	Nash
Nash	2	24-25	Buda HU
National	2	24-26	Wau. Y
National	3	24-26	Wau. CU
National	3½	24-26	Wau. DU
National	1½-2-2½	27-28	Wau. V
National	3-3½	27-28	Wau. CU
Nelson Le Moon	1	18-23	Cont. NA
Nelson Le Moon	1½-2½	18-23	Cont. C4
Nelson Le Moon	3-5	18-23	Cont. E, E4
Nelson Le Moon	5	19-24	Cont. B2
Nelson Le Moon	1-3½	24	Cont. J4, L4
Nelson Le Moon	1½-2½	24	Cont. K4
Netco	2	19-21	Cont. C4
Netco	2½	19-21	Cont. E, E4
Netco	2	22-24	Cont. K4
Netco	2½-3	22-25	Cont. L4
Netco	4	24-25	Hink. 200
Niles	2	18-23	Cont. C4
Noble	1-2	20-23	Buda CTU
Noble	2	20-22	Buda ITU
Noble	2½-4	23	Buda HTU
Noble	1¼	23	Buda MU
Noble	3½-5	20-26	Buda YTU
Noble	1-1½	24-27	Buda WTU
Noble	2	24-26	Buda GTU, KTU
Noble	2½-3	24-26	Buda ETU
Noble 124	1¼	27	Buda WYU
Noble	2	27-30	Buda HS6
Noble 154	2	27	Buda KBU
Noble 156	2½	27	Buda DS6
Noble 164	3	27-28	Buda EBU

Digitized by Google

ENGINES—Commercial Vehicles—Continued

Make of Commercial Vehicle	Tonnage	Year	Make of Engine Used
Noble 166	3	27-28	Buda BUS
Noble 184	4	27-28	Buda YBU
Noble 134	1½	28	Buda KBU
Noble 156	2½	28-30	Buda DW6
Noble	3	29-30	Buda BA6
Northway	All	22-26	Northway
Northwestern	1½-2	19-23	Cont. C4
Northwestern	2½	22-23	Cont. E, E4
Norwalk	2	23	Buda CTU
Norwalk	1-2½	19-23	Lyc.
Ogden	1½	20-23	Cont. NA
Ogden	2½	20-23	Cont. C4
Ogden	1	22-23	Cont. 7N
Ogden	5	22-23	Cont. B2
Ogden	3½	22-26	Cont. L4
Ogden	1-1½	24-25	Cont. J4
Ogden	1½	26	Cont. J4
Ogden	2½-5	24-25	Cont. B5
Ogden	1	25-27	Cont. N
Ogden	2½	25-27	Cont. K4
Ogden	5	26	Cont. B-5
O. K.	1½	20-22	Buda ITU
O. K.	2½	20-23	Buda HTU
O. K.	3½	20-25	Buda YTU
O. K.	1	23-25	Buda MU
O. K.	1-1½	24-25	Buda WTU, CTU
O. K.	2-2½	24-25	Buda ITU, ETU
O. K.	1¼	27	Buda WTU
O. K.	1½	27	Buda CTU
O. K.	2	27	Buda KBUI
O. K.	2½	27	Buda EBUI
O. K. Oil.	2½	27	Buda YBUI
O. K.	3	27	Buda BUS
O. K.	3½	27	Buda YTU
Old Hickory	1	20-22	Cont. NA
Old Hickory	3½	23	Wis. VAU
Old Hickory	4-5	23	Wau. PU7
Old Hickory	5	23	Wis. RAU
Old Reliable	5-7½	19-23	Wau. PU7
Old Reliable	1½	20-23	Wis. SU
Old Reliable	3½	23-24	Wis. VAU
Old Reliable	5	21-24	Wis. RAU
Old Reliable	2½	24	Wis. EAU
Old Reliable	5½-7	24	Wau. P
Old Reliable	2½	27	Wis. VAU
Old Reliable	3½	27	Wau. DU
Old Reliable	5	27	Wau. EU
Oldsmobile	¾	19-23	Oldsmobile
Olympic	2½	22-23	Buda HTU
Oneida	1-1½	18-21	Cont. NA
Oneida	1½-4	20-24	Hink. 400
Oneida	5	24	Hink. 1600
Oneida	1½-2	27-28	Herc.OX
Oneida C9	2½	27-28	Herc. K
Oneida D9	3½	27-28	Herc. L
Oneida E9	5	27-28	Herc. G
Oneida BB9	2	28	Cont. 12C
Oneida CC9	3	28	Wis. HB
Oneida	1½	29-30	Cont. 16C
Oneida	2-2½	29-30	Wau. V
Oneida	2½	29	Wau. CK
Oneida	3	29-30	Wau. 6XL
Oneida	3½	29-30	Wau. DU
Oneida	5	29-30	Wau. GU
Oneida	TT	29-30	Wau. 6KU
Oneida	TT	29-30	Wau. 6AB
Oneida C9	3	30	Wau. CR
Oshkosh	2	20-23	H-SP.
Oshkosh	2½	22-23	Herc. CU3
Oshkosh	2	24-28	Wis. SU
Oshkosh	2½	24-28	Herc. O, OX
Oshkosh	3	26-28	Herc. L
Oshkosh	5	26-28	Wau. EU
Oshkosh	4	24-25	Wau. O
Oshkosh Exp.	1½-2	27-30	Herc. OX
Oshkosh	2	28	Wis. Y
Oshkosh	3½-4	28-30	Herc. YXC
Oshkosh R6	2	30	Herc. WXB
Oshkosh L, M	2½-3	30	Herc. WXC
Oshkosh H, S	3-3½	30	Herc. G
Oshkosh H6	3	30	Herc. YXB
Oshkosh FHX	5	30	Herc. YXC
Overland	½	24-26	Overland 91
Packard	All	18-23	Packard
Paige	2	18-21	Cont. C4
Paige	3½	18-22	Cont. E, E4
Paige	1½	20-23	Hink. 400
Parker	1½	23	Wis. SU
Parker	1-1½	22	Wau. BUX
Parker	3½	19-24	Wis. VAU
Parker	1	24	Buda WTU
Parker	1½	24	Wis. SU
Parker	2	24	Wis. TAU
Parker	2½	24	Wis. UAU
Parker	5	24	Wis. RBU
Parker	1-1½	27	Wis. SU
Parker	2½	27	Wis. UAU
Parker	3½	27	Wis. VAU
Patriot	¾-2	19-23	Cont. NA
Patriot	1½-2-3	20-25	Hink. 400
Patriot	1	24	Cont. N
Patriot	1¼	25-26	Buda WTU
Patriot	1½	26	Buda WTU
Patriot	2-2½	26	Hink. 400
Patriot	3	25-26	Hink. 200
Pendell	1½	26-27	Herc.
Penn	2	22	Buda MU
Penn	1	24	Penn
Penn	2	23-26	Buda WTU, WU
Penn	1	25-26	Overland
Penford	2	25-28	Himico
Perfection	¾	23	Cont. 7N
Perfection	1	23	Cont. NA
Perfection	2½-3	23	Cont. K4
Pierce-Arrow	All	18-30	Pierce-Arrow
Pittsburgher	2½-3	20-22	Cont. C4
Pittsburgher	3	22-23	Midw. 40
Pittsburgher	1½	22-23	Midw. 412
Pontiac	½	26-27	Pontiac
Rainier	2-2½	21-23	Cont. C4
Rainier	3½	21-23	Cont. E, E4
Rainier	6	22-24	Cont. B2
Rainier	¾-1	24-26	Cont. N
Rainier	1½	24-25	Cont. J4
Rainier	1½	26	Cont. K4
Rainier	2-2½	24-26	Cont. K4
Rainier	3½	24-25	Cont. L4
Rainier	3½-6	26	Cont. B7
Rainier	5½-7	24-25	Cont. B5
Rehberger	2	25-29	Buda KTU
Rehberger	3-4	25-30	Buda YBU
Rehberger	3	25-26	Buda BUS
Rehberger	5	25-30	Buda BTU
Rehberger A-6	2	30	Wau. XK
Relay	1½-2½	28-30	Buda DS6
Relay	2-3	28-30	Buda DW6
Relay	2½-3½	28-30	Buda BUS
Relay	1-2	29-30	Buda HS6
Relay	3½-4	29-30	Buda BA6
Reliance	2½	23	Buda HTU
Reliance	1½	22-23	Buda ITU
Reo	¾-2	18-23	Reo G
Reo	1¼-2	22-29	Reo
Reo	½	28	Cont.
Reo	½-1	29-30	Cont. 16E
Reo	1½-3	29-30	Own
Republic	1-3	18-23	Cont. NA
Republic	2½	19-22	Cont. C4
Republic	3½	19-22	Cont. E, E4
Republic	¾-2	21-24	Lyc. LC
Republic	1½-2	23-25	Cont. J4
Republic	2½-3	23-25	Cont. K4
Republic	3½-4-5	23-25	Cont. L4
Republic	2½	20-23	Wau. FU
Republic	1½	24	Lyc. K
Republic	1¼-1½	25-30	Lyc. CT
Republic	2	26-28	Cont. J4
Republic	2	26-30	Wau. V
Republic	3	26-29	Cont. K4
Republic	3	26	Wau. FU
Republic	4½	26-30	Wau. CU
Republic	5	26-30	Wau. DU
Republic	2-2½	27-30	Lyc. 4SG
Republic 60	2½	27-30	Lyc. TF
Republic 25W	3	27	Wau. F4
Republic 30	4½	27-29	Cont. L4
Republic	1¼-2½	28-30	Lyc. 4SL
Republic	2-2½	28-30	Lyc. C4
Republic 25W	3-3½	28-30	Wau. CU
Republic 65	2½-3½	28-30	Lyc. TS
Reynolds	1½-2	21-23	Hink. 400
Riddle	1	18-22	Cont. 7N
Riddle	¾	18-22	Cont. NA
Rock Falls	¾-2	21-23	Cont. NA
Rowe	2-3	19-25	Wis. TAU
Rowe	5	20-23	Wis. VAU
Rowe	5	24-26	Wis. RAU
Rowe	3	25	Wis. UAU
Rowe	4	25	Wis. VAU
Rugby	½-¾-1	28-30	Cont.
Ruggles	1	20-22	Cont. NA
Ruggles	¾	23-25	H-SP. 30
Ruggles	1¼	24	Ruggles
Ruggles	1½	24	Ruggles
Ruggles	2	24	Ruggles
Ruggles	2½	24	Ruggles
Ruggles	1	25-26	Lyc. CT
Ruggles	1¼-3	25-26	Herc. O
Ruggles 18	1¼	27-28	Lyc. CT
Ruggles 18	1¼	27	Lyc. SG
Ruggles	1½-3	27-28	Herc. OX
Ruggles 25	2	27-28	Lyc. TF
Ruggles	1¼-1½	28	Lyc. 4SG
Rumely	1½	24-27	Buda CTU
Safeway	4	27-28	Cont. 15H
Sandow	1-1½	19-23	Cont. 7N
Sandow	3½-5	19-22	Cont. E, E4
Sandow	2½	19-23	Cont. C4
Sandow	1½-2	20-23	Cont. NA
Sandow	1	24	Cont. N
Sandow	1-1½	24-26	Buda WTU
Sandow	2	24-26	Herc. O
Sandow	2½	24-26	Buda ETU
Sandow	3½	24-26	Buda YTU
Sandow	5	24-26	Buda BTU
Sandow	1-2	25-28	Herc. OX
Sandow	2½	27	Herc. K
Sandow M	3½	27	Herc. L
Sandow L	5	27	Herc. G
Sandow JS6	2	28	Herc. HS6
Sandow	2½	28	Buda EBU-I
Sandow M	3½	28	Buda YBU-I
Sandow L	5	28	Buda BTU
Sanford	1½	23	Cont. NA
Sanford	2½	19-23	Cont. C4
Sanford	3½-5	19-23	Cont. E, E4
Sanford	1-1¼	22-26	Cont. 8R
Sanford	1½	24-27	Cont. 8R
Sanford	2½-3½	24-25	Cont. L4
Sanford	2½	26	Cont. L4
Sanford	3½-5	26	Cont. B7
Sanford	5	24-25	Cont. B7
Sanford	2	27	Cont. 8R
Sanford	3	27	Cont. 6B
Sanford	4	27	Cont. B7
Sanford	5	27	Cont. B7
Sanford	¾-1	29-30	Cont. 31L
Sanford	1¼	29-30	Cont.
Sanford	1½	29	Cont. 18C
Sanford	2-2½	29-30	Cont. 16C
Sanford	3-4	29	Buda
Sanford AX	1¾	30	Cont. 18E
Sanford F	3	30	Cont. 16R
Sanford FL	3	30	Buda 16R
Sanford O	4	30	Cont. 18R
Saurer	All	24-29	Saurer
Sayers & Scoville		18-22	Cont. 7N
Sayers & Scoville		21	Cont. NA
Schacht	2-3½	19-22	Buda HU, HTU
Schacht	4-7	19-22	Buda YU, YTU
Schacht	4-7	23-24	Wis. VAU
Schacht	1-1½-2	23-28	Wis. SU
Schacht	2-2½-3	24-25	Wis. UAU
Schacht	3½-4-5	25	Wis. VAU
Schacht	7	25-26	Wis. RBU
Schacht	2½	26-27	Wis. UAU
Schacht	2½-5	26-27	Wis. RCU
Schacht	7½	27	Wis. RBU
Schacht HS	2	28	Wis. Y
Schacht	2½-5TT	28-29	Wis. XK
Schacht	All others	28-30	Wau. KU
Schacht	1½-2½	29-30	Cont.
Schacht	2	29	Wau. XL
Schacht	5-5½ up	29-30	Wau. SRL
Schacht	3, TT	29-30	Wau. XK
Schacht 40	5	30	Herc.
Schacht	TT	29	Wau. SRL
Schwartz	2-2½	21-23	Buda CTU
Schwartz	2½-3½	21-23	Buda HU, HTU
Schwartz	3½-5	21-23	Buda YU, YTU
Schwartz	1	21-23	Lyc.
Schwartz	1¼	23	Buda WTU
Schwartz	5-7	23	Buda BTU
Security	2½	22-23	Buda HU, HTU
Selden	3½-5	18-22	Cont. E, E4
Selden	5	20-22	Cont. B2
Selden	5	23-25	Cont. B5, B6, B7
Selden	1¼-2	24-28	Cont. 8R
Selden	1¼	26	Herc. O
Selden	2-2½	23-25	Cont. J4, K4
Selden	2-2½	26	Cont. K4
Selden	2¼	26	Cont. 6B
Selden	3-3½	24-25	Cont. K4, L4
Selden	3-3½	23	Cont. L4
Selden	1½	25	Herc. O
Selden	4	25-27	Cont. B5
Selden	5	26-28	Cont. B7
Selden	1¼-2	27-29	Cont. S4
Selden	3-4	27-29	Cont. 6B
Selden	3-3½	27	Cont. L4
Selden	1¼-2½	28-30	Cont. C15
Selden	4-5	28	Cont. 8T
Selden	1½	29-30	Cont. 18E
Selden	5	29	Buda GF6
Selden 7	1	30	Cont. 29L
Selden Road-master 39C	3	30	Cont. 16R
Selden Road-master 47CB1	3½	30	Cont. 18R
Selden 67C	5	30	Cont. 21R
Selden 77	5½	30	Cont. 16H
Service	1-1½	18-23	Buda RU, WU
Service	½	18-23	Buda HU, HTU
Service	1½-2	18-22	Buda IU, ITU
Service	5	18-23	Buda YU, YTU
Service	1	26-28	Buda WTU
Service	1½	23	Buda MU
Service	1¼-1½	24-25	Buda WTU
Service	1½	24	Buda GBUI
Service	2-2½-3	24-26	Buda EBUI
Service	3½-6	24-26	Buda YBUI
Service	1½	25-26	Buda KBUI
Service	2½-TT	27-28	Buda EBUI
Service	1-1½-2	29-30	Buda HS6
Service	1½-2-2½	29-30	Buda DS6
Service	2½-3	29-30	Buda BUS
Service	3½-5½	29-30	Buda BA6
Service 81	3½-TT	27-28	Buda YBUI
Service 103	5-TT	27-28	Buda YBUI
Service 61	2½	28	Buda DW6
Signal	1½-2	18-22	Cont. C4
Signal	5	18-22	Cont. B2
Signal	3½-4	18-22	Cont. E, E4
Signal	1	21-22	Cont. NA

Digitized by Google

ENGINES—Commercial Vehicles—Continued

Make of Commercial Vehicle	Tonnage	Year	Make of Engine Used
Signal	2½-3½	23	Cont. K4
Signal	5	23	Cont. L4
Signal	7½	23	Cont. B5
Signal	1	23-24	Cont. J4
Signal	1½-2½	24	Cont. K4
Signal	3½	24	Cont. L4
Signal	5	24	Cont. B5
Southern	1	21-23	Buda WU
Southern	1¾-2	21-23	Buda HU, HTU
Southern	1½	21-23	Cont. NA
Standard	2	19-22	Cont. C4
Standard	3½-5	19-22	Cont. E, E4
Standard	1-1½	22-23	Cont. NA
Standard	5	21-22	Cont. B2
Standard	2½-3½	23-30	Cont. K4, L4
Standard	5-6	23-26	Cont. B5
Standard	1-1¼-1½	24-26	Cont. N, J4
Standard	5-7	27-30	Cont. B5
Standard	3½-5	28-29	Cont. L4
Star 4	½	26-27	Cont. Spec.
Star 6	1	27	Cont.
Steinkoenig A	1½	27	Wau. V
Steinkoenig	2½	27	Wau. CU
Sterling	2½-3	18-22	Wau. BU4R
Sterling	1½-2	22-23	Wau. FU
Sterling	2½-3½	23	Wau. CU, DU
Sterling	5-7	23	Wau. EU
Sterling	All	24-29	Sterling
Sterling	1¼	29-30	Cont. 18E
Sterling	3	29-30	Own 6XK
Sterling DB9-64-16C	1½	30	Cont. 16C
Sterling DB11-64XL	2	30	Wau. 6XL
Sterling DW13-65XK	3	30	Wau. 6XK
Sterling DW15-64XK	3½	30	Wau. 6XK
Sterling DW18-64KS	4	30	Wau. 6KS
Sterling DC19-64XK	4½	30	Wau. 6XK
Stewart	1	18-21	Buda RU
Stewart	1½-2	18-21	Cont. NA, 4C
Stewart	2½-3½	20-24	Buda HU, YTU
Stewart	1¼-1½	23	Buda MU
Stewart	1-1½	24	Lyc. KC
Stewart	2	24	Cont. N
Stewart	1	25-26	Lyc. CT
Stewart	1¼	26	Lyc. (6)
Stewart	1½-2	25-26	Lyc. C
Stewart	2½	25-26	Buda HTU
Stewart	3½	25-26	Buda YTU
Stewart Buddy	¾-1	27-28	Cont.
Stewart 16-25X	1¼-2	27-30	Lyc. CT
Stewart	1½-2	27	Lyc. C
Stewart 19	2½	27-30	Lyc.
Stewart 22	3½	27-30	Lyc.
Stewart 16X	1¼	28-30	Lyc.
Stewart 24-25	1½-2	28-29	Lyc. C4
Stewart 24X	1½	28-30	Lyc.
Stewart 18X	2-2½	28-30	Lyc. TF
Stewart	3-4	28-30	Lyc. TS
Stewart	2	29-30	Lyc. 4SL
Stewart	2	29	Lyc. C4W
Stewart Buddy	¾-1	29-30	Lyc.
Stewart	2	29	Lyc. 4
Stewart	3½-5½	30	Wau.
Stoughton	1-1½	20-23	Wau. BUX
Stoughton	2	20-23	Herc. CU3
Stoughton	3	23	Midw. 402
Stoughton	1¼-1½-2-3	25-26	Stoughton
Stoughton	1½	25-26	Wau.
Stoughton	1½-2-3	27	Stoughton
Studebaker	¾	28	Studebaker
Stud. Erskine	½	29	Cont. 9F
Studebaker	¾-3½	29-30	Own
Super-Truck	2½	20-26	Wis. EAU, TAU
Super-Truck	5	20-23	Wis. A, AI, AU
Super-Truck	3-3½	24-26	Wis. VAU, UAU
Super-Truck	5	24-26	Wis. RAU
Traffic	1½-4	20-25	Cont. NA
Traffic	1½-2-3	25	Cont. N4
Traffic	2-3½	26-27	Cont. S4
Traffic 6000	3	27	Cont. S4
Transport	1-1½	20-25	Cont. NA
Transport	2½-3	20-23	Cont. C4
Transport	3½	20-23	Cont. E, E4
Transport	1½-5	22-25	Buda WTU, YTU
Transport	2-3½	24-25	Buda KTU, ETU
Traylor	1-1½	20-27	Buda WU
Traylor	2½-3	20-24	Buda HTU
Traylor	5-6	20-27	Buda YTU
Traylor	3	25-27	Buda ETU
Triangle	¾-1	19-23	H-SP.
Triangle	1½-2½	18-24	Wau. BUX
Triangle	2½-3½	20-24	Wau. FU
Triangle	1	24	H-SP. 2700
Triumph	1-1½	22-23	Buda MU
Triumph	1½-2	22-23	Buda CTU
Twin City	2	22-23	Buda IU, ITU
Twin City	2-2½-3½	24-28	Twin City
Union	2½	18-23	Wis. EAU, TAU
Union	4	19-26	Wis. VAU
Union	1½	24	Cont. 6M
Union	2½	24-26	Wis. TAU
Union	1½	25-26	Wis. Y
United	1½	19-21	Buda Q, QU
United	3½-5	19-23	Buda YU, YTU
United	1½	21-22	Buda RU, WU, CTU
United	1	23-24	H-SP.
United	1-1½	26	United
United	1¼-3	24	H-SP. OX
United	3½-5	24	H-SP. MU3
United	1¼-1½-2-2½-3	25-26	Herc. OX
United	2	26	Wis. Y (6)
United	5	25	Herc. L
United	5	26	Herc. G
United 16	1	27-30	Wau. X
United 20	1¼	27-30	Herc. OX
United	1¼-2	27-30	Herc. OX
United 40	2	27	Wis. Y6
United	2-4	27-30	Herc. OX
United 70	3½	27-30	Herc. L
United 100	5-5½	27-30	Herc. G
United 16C6	1	28	Cont. 20L
United 20C6	1¼	28	Cont. 12C
United 30C6	1½	28-30	Cont. 8R
United	2-2½	28-30	Cont. 6B
United 70C6	3½	28-30	Cont. 8T
United	1	29-30	Cont. 29L
United	1¼	29-30	Cont. 16C
United States	1½-2	20-23	Cont. NA
United States	1¼-2	22-26	Buda WTU
United States	3	21-26	Hink. 400
United States	4-5	24-26	Hink. 200, 230
United States	5-7	24-25	Buda ATU
United States	7	26	Buda ATU
United States U	1	27-30	Buda WTU
United States L	1½	27-30	Buda HS
United States N	1½	27-30	Buda
United States 21	2	27-30	Buda WTU
United States 20	2	27-30	Buda HS
United States 31	2½-3	27-30	Buda EBUI
United States 30	3	27-30	Buda DS
United States 40	3½-4	27-30	Buda YBUI
United States	3	28-29	Buda DW
United States	5½	28-30	Buda BTU
U. S. T.	5½ up	29-30	Buda BTU
Valley Disp.	1¼-2½	27-30	Herc. OX
Valley	3-4	28	Herc. K
Valley	1¼-3-4	29	Herc.
Velie	1½	20-23	Cont. NA
Velie	2½	23	Herc. CU3
Velie	¾-1½	28-29	Velie
Veteran	1½-4	22	Buda CTU, YTU
Victor	1¼-1½-2-2½	25-28	Herc. O, OX
Victor	3½-5	25-26	Cont. L4
Victor	6	25-26	Cont. B5
Victor 70	2½	27-28	Herc. K
Victor 80	3½	27-28	Herc. L
Victor 90		27-28	Herc. G
Victor 25	1¼	28-29	Cont.
Victor	1½	29	Cont. 18E
Victor	2-2½	29	Herc. WXB
Victor	3-3½	29	Herc. WXC
Wachusett	1	25-29	Cont. 8R
Wachusett	1½	25-29	Cont. J4
Wachusett	2	25-26	Cont. K4
Wachusett	2½	25-29	Cont. L4
Wachusett K	1½	27-29	Cont. K4
Wlkr. Johnson	2-3	22-23	Buda CTU, HU
Wlkr. Johnson	1½	22	Weid.
Wlkr. Johnson	1½	23	Midw. 412
Wlkr. Johnson	1½-2½	24	Hink. 300-500
Walter, 4.W.D.	5	21-23	Wau. MU7
Walter, 4.W.D.	2-3	23	Wau. FU, DU
Walter	TT	28	Walter
Walter	3½-5-5½ up TT	29-30	Own 6
Ward LaFrance	2½-5	20-23	Wau. RU, DU, EU
Ward LaFrance	2½-5	24-25	Wau. CU
Ward LaFrance	2½-3½	26	Wau. CU
Ward LaFrance	7	25	Wau. EU
Ward LaFrance	5-7	26	Wau. EU
Ward LaFrance	2½	27-29	Wau. V
Ward LaFrance	3	27-30	Wau. CU
Ward LaFrance	3½-4	27-30	Wau. DU
Ward LaFrance	3½	27-29	Wau. 6QL
Ward LaFrance	5	27-30	Wau. EU
Ward LaFrance	5-5½ up	27-29	Wau. 6AL
Ward LaFrance	5½ up	27-30	Wau. GU
Ward LaFrance	5-5½ up	27-29	Wau. 6AL
Ward LaFrance	3	28	Wau. 6KL
Ward LaFrance	4	29	Wau. 6KW
Ward LaFrance	2-2½	30	Wau. XK
Ward LaFrance	3-4	30	Wau. KU
Ward LaFrance	5-5½	30	Wau. AB
Ward LaFrance	3	30	Own 12K
Whippet 96A	½	30	Own
White	All	18-30	White
Wichita	1-2½	18-22	Wau. BUX
Wichita	1½	21	Wau. TU4
Wichita	2½-3	20-23	Wau. CU, DU
Wichita	1½	26	Wau. BUX
Wichita	3	26	Wau. CU
Wichita 20	1½	30	Wau. V
Wichita 6-50	2	30	Wau. 6XL
Wichita 6-60	2½	30	Wau. 6XK
Wichita 6-90	3½	30	Wau. 6KU
Wilcox	1	20-23	Buda CTU
Wilcox	3½	20-26	Buda YTU
Wilcox	1	24-26	Buda WTU
Wilcox	1½-2½	24-26	Wilcox
Wilcox	5	24-26	Buda ATU
Willys-Knight	Taxi	23-25	Willys-Knight
Willys-Knight	1-2½	28-30	Willys-Knight
Willys Six C-101	1½	30	Own
Winther	2½	23	Wis. TAU
Winther	1½-2½	25-26	Wis. SU
Winther	3	25-26	Wis. UAU
Winther	3½	25-26	Wis. VAU
Winther	5	25-26	Wis. RAU
Winther	5-7	25-26	Wis. RBU
Wisconsin	1-2½	19-23	Cont. 7N, J4
Wisconsin	5	19-21	Wau. PU7
Wisconsin	2½	19-23	Wau. FU
Wisconsin	2	23	H-SP.
Wisconsin	3½-5	23	Wau. CU, DU
Wisconsin	1½	25-26	Wau. Y
Witt-Will	1½	18-21	Cont. NA
Witt-Will	1½-2	19-25	Cont. C4
Witt-Will	1-2½-3	22-25	Cont. K4
Witt-Will	1½	26-29	Cont. S4
Witt-Will	2	26	Cont. C4
Witt-Will	2½-3	26	Cont. K4
Witt-Will	4-5	24-26	Cont. B5
Witt-Will	2	27-30	Cont. S4
Witt-Will	2½-3	27-30	Cont. K4
Witt-Will	3-3½	27-30	Cont. L4
Witt-Will	4-5 up	27-30	Cont. B5
Witt-Will	1½	29	Cont. 15C
Witt-Will P6	2	29	Cont.
Witt-Will S6	2½-3	29	Cont. R18
Witt-Will	3½-4	29-30	Cont. R20
Witt-Will C2	1½	30	Cont. 16C
Witt-Will	2-2½	30	Cont. 16R
Witt-Will R3	18R	30	Cont. 18R
Witt-Will R35	20R	30	Cont. 20R
Woods	1¼	27	Buda WTU
Woods 31B4	1½	27	Buda WTU
Woods 31B6	1½	27	Buda HS6
Woods 36W4	2	27	Buda KBUI
Woods 51W4	2½	27-29	Buda KBUI
Woods 56W4	3	27	Buda YTU
Woods 20B6	1¼	28-29	Cont. 31L
Woods 40B6	2	28-29	Buda HS6A
Woods 52W6	3	28-29	Buda DW6
Woods 60W4	3½	28-29	Buda YBU
Woods	1¼	29	Buda WTU
Woods 32	1½	30	Herc. WXA2
Woods 41	2	30	Herc. WXB
Woods 45	2½	30	Herc. WXC
Woods 53B6	3	30	Herc. WXC
Woods 53AW6	3	30	Herc. WXC
Woods 61	3½	30	Herc. G
Woods 90	4	30	Herc. YXC2
World	1½-2½	28	Cont. 15S
World	1½-3	30	Lyc.
World D-60	1	30	Lyc. 4SL
Yellow Cab	¾-1-1½	22-25	Cont. V4, V7
Yellow Cab	¾	26-27	Cont. V7
Yellow Cab	1	26-28	Cont. V4
Yellow Coach	2½-4	28	Yellow Coach
Yellow Knight	1	27-28	Yell. V

ABBREVIATIONS

Cont.—Continental
G.M.C.—General Motors Corp.
HaS—Hall Scott
Herc.—Hercules
Hink.—Hinkley
H-SP—Herschell-Spillman
Int. Harv.—International Harvester
Kelly-Spr.—Kelly-Springfield
Lyc.—Lycoming
Midw.—Midwest
Spec.—Special
TT—Tractor Truck
Wau.—Waukesha
Weid.—Weidley
Wis.—Wisconsin
Yell.—Yellow Sleeve

Digitized by Google

Engines—Motor Bus

The Make and Model of Engine Used in Any Motor Bus Can Be Determined Here By Looking Up the Name, Model, Year, etc., of the Vehicle in Its Alphabetical Order. Having Determined the Engine Used, Information on Replacement Parts for That Engine Can Be Found in the Engine Parts Sizes Tables Starting Page 318.

Make and Model of Bus	Seating Capacity	Year	Make of Engine Used
ACF All	..	27-28	Hall-S
ACF 30, 40	29-34	30	Hall-S 160
ACF 45, 64	38	30	Hall S-175
Ace C	30	25	Cont 6B
Ace C	30	26	Cont 7T
Ace All	30	23-24	Midw 400
Acme All	..	23-25	Cont 6B
Acme 116-118	16-18	26-29	Cont 6B
Acme 121	21-22	26-29	Cont 7T
Acme 120	29	30	Cont 20R
Ameco C	36	23-25	WSM 102
Amer. La Fr., 4R	25-29	26	Own 4R
Autocar All	18-32	23	Own
Bridgeport	29	27	Buda BUS
Bridgeport 45	30	24-25	Buda EBU
Brockway E2	..	23	Wisc
Brockway EB	18-20	24-30	Wisc SU
Brockway EB4	18-20	26-30	Wisc Y
Brockway H	22	25-26	Cont 6B
Brockway H	22	26-27	Wisc HB
Brockway I	40	26	Wisc Z
Brockway JI	29	26-27	Wisc H
Brockway J3-6	25	24-26	Cont SB
Brockway EB4	20	25	Wisc SU
Brockway JB	16	28-30	Wisc C
Brockway SW	22-24	28-30	Wisc Y
Brockway ZL	30	28	Wisc H
Brockway H	25-28	28-29	Wisc H
Brockway JBF	16-29	29	Wisc F
Brockway JI	32	29	Wisc H
Brockway H	22	30	Wisc HB
Brockway JI-2	30	30	Wisc H
Brockway 90B	16	30	Cont 16C
Buick 23-4-D	..	23	Own
Chevrolet T	..	23	Own
Clinton 65B	30	25-26	Buda EBU
Clinton 65B	30	26-28	Wauk CU
Clinton 65BS	35	25-26	Buda YBU
Clinton 65BS	35	26-27	Wauk DU
Clinton 65BS	35	27-28	Wauk 6Q
Commerce 60	25	23	Cont 6B
Commerce 65	29-34	26	Cont 14H
Corbitt SB 630	15	28	Cont 15C
Corbitt SB 620	15	29	Cont 18E
Corbitt SB 630	18	29	Cont 16C
Corbitt SB 646	21	29	Cont 16C
Day-Elder C, D	20-25	23	Buda
Day-Elder 20	20	24	Cont K4
Day-Elder 20	..	26-27	Buda KBU
Day-Elder 25	25	25-26	Cont 6B
Day-Elder 30	30	25-27	Buda BUS
Day-Elder 20, 30	20	27-28	Cont 6B
Day-Elder 20, 30	30	28-29	Buda BA6
Dodge Bros. All	16-21	29-30	Own
Douglas	21	27-28	Buda DS6
Douglas	21	29-30	Buda DW6
Duplex A	16	23	Hink
Duplex AB	23	23-24	Hink HAA400
Duplex FB	23	25	Buda EBU
Eagle 100	..	23	Buda
Eugol 752	..	23	Buda
Fageol	12	23	Hall-S
Fageol (Inter-City)	27	23	Hall-S
Fageol (St. Car)	22-29	24-27	Hall-S 50
Fageol	26-29	24-27	Hall-S 75
Fageol Dbl. Deck	58	26	Hall-S 75C
Fageol 503 (Kent)	29	27-29	Hall-S
Fageol Par. Car	26	28-29	Wauk
Fageol St. Car	29	28-29	Wauk
Fageol Dbl. Deck	58	28-29	Wauk
Federal S 26	17-21	26	Knight 64
Federal BB6, UB6	25	25-26	Cont 6B
Fifth Ave. All	29-51	23	R&V K
Fifth Ave. J	29-25	24-29	Yell EZ
Fifth Ave. L	53-55	24-27	Yell EZ
Fifth Ave. I, L	55	28-29	Yell EZ
Ford TT	..	23	Own
Garford KB	17-21	25-29	Wisc Y
Garford 51	29	23-25	Buda YBUI
Garford 726	25	24-25	Buda EBUI
Garford 51D	29	26-27	Buda BUS
Garford CB	29-30	26-29	Wisc Z
Gary 45B	40	26	Buda GL6
Gary FB	18	23	Buda GBU
Gary BIL	25	23-24	Buda EBU
G.M.C. K-20	20	23	Own
Gotfredson 56-B-60	60	26-27	Buda GL6
Gotfredson 50-B-29	29	26	Buda BUI
Gotfredson 50-B-29	29	27	Buda GL6
Graham Bros. All	16-21	25-28	Dodge
Gramm N	15	27	Cont 8R
Gramm R	21	27	Cont 6R
Gramm 363N	15	28-29	Lyc S
Gramm RA	17	28-29	Lyc TS
Gramm 30	21	28-29	Buda BA-6
Gramm 31	25	28-29	Buda BA-6
Gramm Kincaid	15	25-26	Cont 8R
Gramm Kincaid	18-25	25-26	Cont 6R
Hahn KB	27	26-28	Cont 6B
Hahn LB	35-36	26-28	Cont 14H
Hahn DB, OB	18-20	26-28	Herc OX
Hahn OB	18	29-30	Cont 6B
Hahn KB	27	29-30	Cont 16T
Hahn LB	36	29-30	Cont 15H
Int. Harv. 54-M	24	26	Buda
Int. Harv. 61	..	23	Own
Int. Harv. 33	18	24	Own
Int. Harv. 53	29	24	Own
Int. Harv. S L	16	25-26	Lyc KB
Int. Harv. 54-L	18	25-26	Own Spec.
Int. Harv. 54-M	24	25	Own Spec.
Int. Harv. 54-H	30	25	Own Spec.
Int. Harv. 54-H-1	34	25-26	Own Spec.
Int. Harv. 54-DD	60	25	Own Spec.
Int. Harv. 15	16	27-28	Lyc 4-SG
Int. Harv. 15	16	29	Lyc 4-SL
Kenw'th BU 21	21	28-29	Buda BA6
Kenw'th BU 29	21	28-29	Buda GL6
Kissel 55	20	26	Own 55
Kissel K	18	23-25	Own K
Kissel	20	26-27	Own CB6
Kissel	21	28-29	Own CB6
Kissel	21	30	Own 55
Larrabee X42	17	26	Cont 8R
Larrabee XH4	25-30	26	Cont 6B
Lar'bee X2, L10	16	23-26	Cont 8R
Larrabee J4	20	23	Cont
Lar'bee XH3, 31	21	25-27	Cont 6B
Larrabee XH31	21	28-29	Cont 6B
Maccar H3	40	26	Buda BUS
Maccar H2	..	23	Cont
Mack AB	25-29	23-27	Own
Mack AC	33	23-25	Own Spec.
Mack (Sed) AB	24	25-27	Own AB
Mack AL	25-29	27-29	Own AL
Mack AB	25-29	28-29	Own AB
Menominee T	16-23	24-30	Wisc Y
Menominee T	25	26	Wisc H
Menominee DB	25	24-25	Wisc TAU
Menominee T	21	27	Wisc H
Menominee T2	17-21	28-30	Wisc HB
Moreland RR	18	23	Herc
Moreland RC	12	24-25	Herc O
Moreland RC	16	26	Herc OBX
Moreland EC	20	24-26	Cont K4
Moreland AC	25	24-26	Cont L4
Overland 4D	..	23	Own
Packard E	25	23	Own
Packard EX	25	23	Own
Pierce-Arrow Z	25-30	25-26	Own Z
Pierce-Arrow Z	25-30	28-29	Own
Rehberg'r B-2-3	25	25-28	Buda BUS
Rehberger B4	29-30	29-30	Buda BA6
Relay KBR	17-21	30	Buda DS-6
Reo F	12	23	Own
Reo GB	21	28-30	Own
Reo FB	12	29	Own
Reo Sedan	16	26-27	Own T6
Reo (St.Car) W	21	25-27	Own W
Republic 81	15-20	26-27	Lyc C-4
Republic	25	23	Own
Rock Falls 15	..	23	Cont
Ruggles 20-4	16	23	Own
Ruggles 40	..	23	Own
Ruggles 70	25	25-26	Own
Ruggles 60	20	26	Wisc Y
Ruggles 60	19	26-27	Lyc
Ruggles 65-70	25-29	26-28	Wisc
Ruggles 60	19	28	Lyc
Safeway 63-4	29	26	Cont 12T
Safeway 66	61	26-27	Cont 14H
Safeway 36-37	27	25	Cont 6B
Safeway 55	27	25-26	Cont 14H
Safeway 64	29	27	Cont 12T
Safeway 6 Wh. 64	29	28	Cont 12H
Safeway 6 Wh. 66	63	28	Cont 15H
Schacht O	27	25-26	Wisc Z
Schacht	25	26-27	Buda
Schacht N	25	27-28	Buda BA-6
Schacht 60	25	29	Wauk KU
Selden Pace	18	26-28	Cont 8R
Selden R'dm'str	21-25	26-28	Cont 6B
Selden Century	29	26	Cont 14H
Selden 42	21-25	29	Cont 18R
Service 12	12	23	Midw
Service 25	25	23	Buda
Service 32-52	..	23	Buda
Standard AK	28	23	Cont
Sterling GB1	21	24	Wauk FU
Sterling GB2	29	24-26	Wauk CU
Sterling GB4	29	26	Own DU
Sterling GB6	29	26-27	Own 6Q
Sterling GB6	..	25-26	Wauk 6A
Stewart 20	25	26	Cont 6B
Stewart N	29	27	Cont
Stoughton C	15	23	Midw
Stoughton B	16	23	Wauk
Stoughton D	24	23	Herc
Studebaker N	15	26-27	Own
Studebaker A	20	26-27	Own
Studebaker D	21	26-27	Own
Studebaker 75, 75 Jr., 76 Spec.	15-22	28-29	Own
Studebaker All	15-25	30	Own 8
Til'ng-Stev's*X	33	26	Wauk 6Q
Til'ng-Stev's*W	27	26	Wauk 6A
Til'ng-Stev's*Z	64	26	Wauk 6A
Twin City DW	25	26-28	Own TW
Twin Coach	40	28	Wauk
Twin Coach	37-40	29-30	Own
Twin Coach	21	30	Own WXG
Union EC	19	25	Cont 6
Union CG	30	25	Cont 6
Union GW	30	26	Wisc Z
Union EC	19	26	Wisc Y & H
United A	30	25	Buda BUS
Uppercu Sig. 220-80	30	25-26	Cont 6B
Uppercu S, S2	32	26-29	Wauk 6A
Velie 46	..	23	Cont
Ward LaFr. 3B	25	25-27	Wauk DU
Ward LaFr. 4B6	25	27-29	Wauk 6QL
Ward LaFr. 4B6	25	28-29	Wauk 6HB
Ward LaFr. 29B	29	29	Wauk 6AB
White 15	..	23-26	Own
White All	25-29	23-27	Own
White 54, 54A	25-35	28-30	Own 1A1
White 53, 50B	25-29	28-30	Own GRB
White 65	14-21	30	Own 3AI
Witt Will N	24	23	Cont
Wisconsin BA	25	24	Cont 6B
Wisconsin 6 Wh.	28	24	Cont 6B
W.M.C. GX	29-38	28-29	Wauk 3AB
W.M.C. GY	28	24	Cont 6B
W.M.C. NL	21	30	Wauk 6-KU
W.M.C. NTB, GN	29-38	30	Wauk 6-RB
Yellow XZ	17-21	26-28	Own X
Yellow Z & YZ (Double)	67	24-28	Own Z & YZ
Yellow Y & YZ (Single)	29-67	25-28	Own Y & YZ
Yellow Y	29	28-30	Own Y
Yellow Z	67	28	Own Z
Yellow W	17-23	29	Cad 341
Yellow Z-200, 230, 240	29-39	29-30	Own YZ
Yellow W	17-21	30	Cad 343

Cad—Cadillac
Cont—Continental
Hall-S—Hall-Scott
Herc—Hercules
Her-S—Herschell-Spillman
Hink—Hinkley
Lyc—Lycoming
Midw—Midwest
R & V K—R. & V. Knight
TT—Tractor Truck
Wauk—Waukesha
Wisc—Wisconsin
WSM—W. S. Morgan
Yell—Yellow Sleeve

Digitized by Google

Brake Lining Sizes—Passenger Cars

For Commercial Car, Motor Truck Brake Lining Sizes See Page 331.
For Rivet Sizes, Interchangeability and Specifications See Page 280.

Passenger Car Make, Model and Year	Service			Emergency		
	Total Length	Width	Thickness	Total Length	Width	Thickness
Ajax, 6.....25-26	114	1¾	5/16	16	1¾	5/16
Anderson, 50.....23-25	87	2	5/16	25	2	5/16
Anderson, 41.....23-25	74	2	5/16	25	2	5/16
Apperson, 8.....1925	98	2¼	5/16	90	2	5/16
Apperson, 6.....22-25	88	2	5/16	78	1¾	5/16
Apperson, 6 & 8....1926	135	1⅝	5/16	68	1⅝	5/16
Auburn, 6-42.....23-25	77	1¾	5/16	25	2	5/16
Auburn, 6-63.....23-25	90	2	5/16	25	2	5/16
Auburn, 6-66.....25-26	67	2	5/16	25	2	5/16
(Front wheels).....	64	1⅝	5/16	.....	.....	.....
Auburn, 8-88.....25-26	84	2	5/16	25	2	5/16
(Front wheels).....	76	1⅝	5/16	.....	.....	.....
Auburn, 6-66.....1927	61	1⅝	5/16	18½	2	5/16
	65½	2	5/16	.....	.....	.....
Auburn, 8-77.....1927	61	1⅝	5/16	24⅝	2	5/16
	65	2	5/16	.....	.....	.....
Auburn, 8-88.....1927	76	1⅝	5/16	24⅝	2	5/16
	84	2	5/16	.....	.....	.....
Auburn, 76.....1928	87	1¾	5/16	18½	2	5/16
Auburn, 88.....1928	84¾	1¾	5/16	24⅝	2	5/16
Auburn, 115.....1928	101¾	1¾	5/16	24⅝	2	5/16
Auburn, 6-80.....1929	42	1¾	5/16	18	2	5/16
	42	1¾	5/16	.....	.....	.....
Auburn, 8-90.....1929	42	1¾	5/16	24⅝	2	5/16
	42	1¾	5/16	.....	.....	.....
Auburn, 120.....1929	50	1¾	5/16	22¾	2½	5/16
	50	1¾	5/16	.....	.....	.....
Auburn 6-85.....1930	84	1¾	5/16	18⅝	2	5/16
Auburn, 8-95.....1930	84	1¾	5/16	24⅝	2	5/16
Auburn, 125.....1930	100	1¾	5/16	22¾	2½	5/16
Blackhawk.....1929	146	1¾	5/16	20	2¼	1/8
Blackhawk L6, L8..1930	141	1¾	5/16	20	2¼	1/8
Buick, Mast. 6.....24-25	155	2	5/16	81	1⅝	5/16
Buick, Mast. 6.....1926	155	2	5/16	72	1⅝	5/16
Buick, 115.....26-28	155	1¾	5/16	72	1⅜	5/16
Buick, 120 & 128...26-28	175	2	5/16	82	1⅝	5/16
Buick, 116.....1929	154½	1¾	5/16	71⅛	1⅜	5/16
Buick, 121 & 129...1929	166	2	5/16	.....	1⅝	5/16
Buick 40.....1930	.....	1¾	5/16	.....	1¾	5/16
Buick 50 & 60.....1930	.....	2	.....	.....	2	.....
Cadillac, V-63, 314..24-26	98	2½	5/16	97	2½	5/16
(Front wheels).....	71	2¼	5/16	.....	.....	.....
Cadillac, 314.....1927	70⅜	2¼	5/16	86⅞	2	5/16
	97⅞	2½	5/16	.....	.....	.....
Cadillac, 341.....1928	77⅞	2¼	5/16	80¾	2	5/16
	89⅞	2½	5/16	.....	.....	.....
Cadillac, 341B.....1929	89¼	2¼	5/16	20⅜	2¼	5/16
Cadillac, 353-452...1930	95	2¼	5/16	47½	2¼	5/16
Case, VWXY.....20-25	96	2½	5/16	94	2¼	5/16
Case, Y.....1925	105	2½	5/16	24	2½	5/16
Case, JIC.....25-26	141	2	5/16	20	2½	5/16
Case, Y.....1926	164	2½	5/16	20	2½	5/16
Chandler, 6-3 .....°23-26	82	2	5/16	21	1¾	5/16
Chandler, Std. 6....°26-27	142	1¾	5/16	22⅛	1¾	5/16
Chandler, Spec. 6...°26-27	164	2	5/16	32½	1¾	5/16
Chandler, Big 6....°26-28	157½	2	5/16	21	1¾	5/16
Chandler, Roy. Str. 8.....27-28	157½	2	5/16	21	1¾	5/16
Chandler, Spec. 6, 65.....28-29	144	1¾	5/16	22⅛	1¾	5/16
Chandler, Spec. In..1928	144	1¾	5/16	22⅛	1¾	5/16
Chandler, Roy. 75..1929	144	1¾	5/16	22⅛	1¾	5/16
Chandler, Big 6, Roy. 85.....1929	158	2	5/16	20¾	1¾	5/16
Chevrolet, Sup.....24-26	60	1½	5/16	58	1¼	5/16
Chevrolet, AA.....1927	67⅞	2	5/16	56	1¼	5/16
Chevrolet.....1928	36½	1½	5/16	56	1¼	5/16
	67⅞	2	5/16	.....	.....	.....
Chevrolet.....29-30	34¼	1½	5/16	56	1¼	5/16
	60¾	2	5/16	.....	.....	.....
Chrysler, 6.....24-25	136	1½	5/16	19	2¼	5/16
Chrysler, 6-70.....25-26	136	1½	5/16	25	2	5/16
Chrysler, 6-80.....1926	142	1¾	5/16	25	2	5/16
Chrysler, 4-58.....25-26	136	1½	5/16	25	2	5/16
Chrysler, 50.....1927	64½	1¾	5/16	21⅝	2	5/16
Chrysler, 62, 70, 72..27-28	135¼	1½	5/16	24⅝	2	5/16
Chrysler, 80.....1927	140¼	2	5/16	24⅝	2	5/16
Chrysler, 52.....1928	64½	2	5/16	21⅜	2	5/16
Chrysler, Imp. 80...1928	124½	1¾	5/16	24⅝	2	5/16
Chrysler, All.....1929	.....	1¾	5/16	24⅝	2	5/16
Chrysler, 66.....1930	22¾	1½	5/16	19¼	2½	5/16
	18⅝	1½	5/16	.....	.....	.....
Chrysler, 70, 77....1930	29	1¾	5/16	24⅝	2	5/16
	25⅝	1¾	5/16	.....	.....	.....
Chrysler, Imp.....1930	.....	1¾	5/16	24⅝	2	5/16
Cleveland, 41-43...22-26	82	2	5/16	22	1½	5/16
Cleveland, 31.....25-26	72	1¾	5/16	22	1¾	5/16
Cole, All.....19-25	96	2½	5/16	93	2¼	5/16
Cunningham, V5...22-25	89	3	5/16	91	3	5/16
Cunningham, V6...1925	91	3	5/16	92	2½	5/16
Cunningham.....26-29	184	2	5/16	184	2	5/16
Cunningham V-9...1930	139	2½	1/4	139	2½	1/4
Dagmar, 6-70.....23-27	84	2¼	5/16	72	2	5/16
Dagmar, 6-60.....25-26	84	2½	5/16	.....	2½	5/16
Davis, All.....24-25	112	1¾	1/4	25	2	1/4
Davis, 92-3.....1926	106	1¾	1/4	49	2	1/4
Davis, 94-27.....1927	112	1¾	5/16	25	2	5/16
Davis, 99.....1928	152	2	5/16	19	2	5/16
De Soto.....1929	.....	1½	5/16	21⅜	2	5/16
De Soto, Six.....1930	22⅝	1½	5/16	21⅜	2	5/16
	18⅝	1½	5/16	.....	.....	.....
De Soto, St. 8.....1930	22⅝	1½	5/16	21⅜	2	5/16
	18¼	1½	5/16	.....	.....	.....
Diana, St. 8.....26-28	115	1¾	5/16	24	2	5/16
Dodge, 4 (2 W. Brakes)....24-28	80	2¼	5/16	71	1¾	5/16
Dodge, 128.....1928	144⅝	2	5/16	17⅛	2½	5/16
Dodge Senior 6.....1928	107	1¾	5/16	53½	1¾	5/16
Dodge Vic. 6.....1928	86⅞	1¾	5/16	17⅛	2½	5/16
Dodge Senior.....1929	53½	1¾	5/16	17⅛	2½	5/16
Dodge, 6.....1929	55¼	1¾	5/16	19⅛	2½	5/16
Dodge Bros. Senior..1930	53½	1¾	5/16	18⅜	2	5/16
Dodge Bros. DD6..1930	41¾	1½	11/64	21	2	5/16
Dodge Bros. 6.....1930	55¼	1¾	5/16	19¼	2½	5/16
Dodge Bros. DC8...1930	44⅝	1¾	11/64	21⅛	2	5/16
Dorris, 6-80.....23-25	98	2½	5/16	92	2½	5/16
Dorris, 1925.....1925	96	2½	5/16	93	2¼	5/16
Duesenberg, St. 8...22-26	118	2¼	1/4	15	2¼	1/4
Duesenberg J.....1930	64	2¼	1/4	18½	3	1/4
duPont, D.....25-28	140	2	5/16	24	1¾	5/16
duPont, E.....1929	.....	2	5/16	23¼	1¾	5/16
duPont, G.....29-30	.....	2¼	1/4	23½	2	5/16
Durant, 4.....22-26	76	2	5/16	72	1¾	5/16
Durant, 55, 65.....1928	118½	1½	5/16	118½	1½	5/16
Durant, 75.....1928	128½	1¾	5/16	128½	1¾	5/16
Durant, 40.....1929	118½	1½	5/16	118½	1½	5/16
Durant, 60.....1929	98½	1½	5/16	118½	1½	5/16
Durant, 66.....1929	.....	1½	5/16	.....	1½	5/16
Durant, 70.....1929	.....	1¾	5/16	.....	1¾	5/16
Durant 6-14.....1930	118¼	1½	5/16	118¼	1½	5/16
Durant 6-17.....1930	153	3	5/16	153	2	5/16
Elcar, 4.....20-26	75	2	5/16	25	2	5/16
Elcar, 6-61.....20-25	87	2	5/16	84	2	5/16
Elcar, 6-50-5.....1925	149	2	5/16	25	2	5/16
Elcar, 8-80-1.....1925	157	2	5/16	25	2	5/16
Elcar, 6-65.....1926	149	2	5/16	75	2	5/16
Elcar, 8-81.....1926	147	2	5/16	25	2	5/16
Elcar, 6-65.....1926	149	2	5/16	19	2	5/16
Elcar, 6-70.....27-28	119	1½	5/16	18¼	2	5/16
Elcar, 8-82.....1927	140	2	5/16	24⅝	2	5/16
Elcar, 8-90, 8-91, 120 27-28	160	2	5/16	24⅝	2	5/16
Elcar, 8-82.....1928	140	1¾	5/16	24⅝	2	5/16
Elcar, 8-78.....1928	118	.....	5/16	18¼	2	5/16
Elcar, 75.....1929	96⅞	1¾	5/16	18¼	2	5/16
Elcar, 95 & 96.....29-30	102½	1¾	5/16	24⅝	2	5/16
Elcar 75A.....1930	86⅞	1¾	5/16	18¼	2	5/16
Elcar 120.....1930	.....	.....	.....	.....	.....	.....
Elcar 130, 140.....1930	.....	.....	.....	.....	.....	.....
Erskine.....1927	134	.....	.....	134	.....	.....
Erskine Six.....28-29	118⅝	1½	5/16	118⅝	1½	5/16
Erskine 53.....1930	107⅛	1½	5/16	107⅛	1½	5/16
Essex, 6.....25-27	79	1¾	5/16	70	1½	5/16
Essex, Super 6.....1928	121	1½	5/16	121	1½	5/16
Essex, Challenger...1929	73	1½	5/16	18¼	1½	5/16
Essex, Super 6.....1930	98	1½	5/16	98	1½	5/16
Falcon-Knight.....1927	116⅝	1¾	5/16	.....	.....	.....
Falcon-Knight 12..1928	123	1¾	5/16	.....	.....	.....
Flint, 55, 40.....23-25	85	2	5/16	81	1¾	5/16
Flint, 55.....1925e	136	1¾	5/16	.....	.....	.....
Flint, 40-55.....1925	123	1¾	5/16	81½	1¾	5/16
Flint, B-60.....L1926	107	1¾	5/16	9	1½	5/16
Flint, E-80.....1926	107	1¾	5/16	19	2¼	5/16
Flint, Z-18.....1926	69	2	5/16	22	2	5/16
Flint, 60.....1927	107¼	1¾	5/16	8½	1¼	5/16
Flint, 80.....1927	107¼	1¾	5/16	18¾	2¼	5/16
Ford, T.....19-25	23½	1⅛	5/16		None	
Ford, T.....25-27	23½	1⅛	...	64	1½	5/16
Ford, A.....1928	66	1½	5/16	66	1½	5/16
Ford, A.....1929	.....	1½	5/16	66	1½	5/16
Ford, A.....1930	28	1½	5/16	28¾	1	5/16
Franklin, 10-11A...22-25	24	3½	5/16	56	2⅝	5/16
Franklin, 11.....1926	24	3½	5/16	65	2	5/16
Franklin, 11B.....1927	23⅞	3½	5/16	56	2	5/16
Franklin, Series 12..1928	110⅜	1¾	5/16	23⅞	2	5/16
Franklin, All.....1929	84½	1¾	11/64	22½	2	5/16
Franklin 145, 147...1930	133½	1¾	5/16	22½	2	5/16
Gardner, 4.....23-25	68	2	5/16	21	1¾	5/16
Gardner, 8A-6.....1925	136	1⅝	5/16	22	2	1/4
Gardner, 6 & 8.....1926	136	1⅝	5/16	68	1⅝	5/16
Gardner, 80 & 90...1927	140	1⅝	5/16	18¾	2	5/16
Gardner, 75.....1928	140	1⅝	5/16	24	2	5/16
Gardner, 85, 95....1928	.....	.....	.....	24	2	5/16
Gardner, 120, 125...1929	86⅛	1¾	5/16	24	2	5/16
Gardner, 130.....1929	101¾	1¾	5/16	24	2	5/16
Gardner, 136, 140...1930	87	1¾	5/16	18	2	5/16
Gardner, 150.....1930	100½	1¾	5/16	24½	2	5/16
Graham-Paige, 610..1928	116	1½	5/16	18¾	2	5/16
Graham-Paige, 619, 629.....1928	106¾	1¾	5/16	24⅝	2	5/16
Graham-Paige, 835.1928	106	1¾	5/16	.....	.....	.....
Graham-Paige, 612..1929	87¾	1¾	5/16	18¾	2	5/16
Graham-Paige 615...1929	106⅞	1¾	5/16	18¾	2½	5/16
Graham-P., Others..1929	106⅛	1¾	5/16	24⅝	2½	5/16
Graham Std. 6.....1930	87¾	1¾	5/16	18¾	2	5/16
Graham Spec. 6.....1930	106⅞	1¾	5/16	18¾	2	5/16
Graham Spec. 8 & and Std. 8.....1930	106⅞	1¾	5/16	24⅝	2	5/16
Graham Cust. 8.....1930	106⅝	1¾	5/16	24⅝	2	5/16
Gray.....22-25	56	1¼	5/16	20	1¼	5/16
Gray, S.....1926	205	1½	5/16	20	1¼	5/16
Haynes, 55-60.....21-25	84	2½	5/16	26	2½	5/16
H. C. S., 486.....20-25	83	2	5/16	83	1⅛	5/16
Hertz, D-1.....25-26s	88	2½	1/4	23	2	5/16
Herts, D-1.....s1926	91	2½	5/16	23	2	5/16
Hudson, 6.....20-26	89	2½	5/16	80	2½	5/16
Hudson, Super 6...27-28	152 11/16	2	5/16	76⅜	2	1/4
Hudson.....1929	60½	2	5/16	.....	.....	.....
Hudson Great 8....1930	106½	1½	5/16	107½	1½	5/16
Hupmobile, R.....1925	80	2	5/16	81	1¾	5/16
Hupmobile, E.....25-26	142	2	5/16	23	2	5/16
Hupmobile, A Cent. 6.....25-27	66	2	5/16	66	2	5/16
(Front wheels).....	67	1¾	5/16	.....	.....	.....
Hupmobile, E, 125-8 27-28	141¼	2	5/16	22⅝	2	5/16
Hupmobile S.....1930	.....	.....	.....	.....	.....	.....
Hupmobile C.....1930	.....	.....	.....	.....	.....	.....
Hupmobile H, U....1930	.....	1¾	.....	.....	1¾	.....
Jewett, 6.....24-25	155	1¾	5/16	25	2	5/16
Jewett, 6.....1926	116	1½	5/16	19	2	5/16
Jordan, AA, JI, JJ, JE.....24-28	150	2	5/16	24	2½	5/16
Jordan, R.....27-28	136	1¾	5/16	16	2	5/16
Jordan, E.....1929	69	1¾	5/16	17⅝	2	5/16
Jordan, G.....1929	69	1¾	5/16	24¼	2	5/16
Jordan, Line 70....1930	104	1¾	5/16	52	1¾	5/16
Jordan 80.....1930	158	1¾	5/16	.....	2	5/16
Jordan, 90.....1930	158	1¾	5/16	24¼	2	5/16
Jordan, Z Speedway 1930	155	1¾	5/16	24¼	2	5/16
Kissel, 55.....1925	79	2	5/16	26	2	5/16
Kissel, 55, 75.....25-26	181	2	5/16	26	2	5/16
Kissel, 55-75.....26-27	157	2	5/16	26	2	5/16
Kissel, 8-75, 8-90...27-28	172	2	5/16	25½	2	5/16
Kissel, 6-70.....1928	114	1¾	5/16	19	1¾	5/16
Kissel, 8-80, 8-80S..1928	157	2	5/16	25½	2	5/16
Kissel, 6-73.....1929	66	1¾	5/16	19	2	5/16
Kissel, 8-95.....1929	26	1¾	5/16	19	2	5/16
	52	2	5/16	.....	.....	.....
Kissel, 8-126.....1929	34	1¾	5/16	19	2	5/16
	.....	2	5/16	.....	.....	.....
Kissel, 6-73.....1930	56	1¾	5/16	19	2	5/16
Kissel, 8-95.....1930	70	1¾	5/16	19	2	5/16
Kissel, 8-126.....1930	80	1¾	5/16	19	2	5/16
LaSalle.....27-28	139¾	2	5/16	81¾	1⅝	5/16
La Salle.....1929	80⅝	2	5/16	18¼	2	5/16
La Salle, 340.....1930	86½	2	5/16	43¼	2	5/16
Lexington, 6-50....1926	112	1¾	5/16	25	2	5/16
Lincoln, 8.....23-26	91	3	1/4	82	2½	5/16
Lincoln, 8.....27-28	177⅜	2½	1/4	98	2½	1/4
Lincoln, 8.....1929	.....	2½	1/4	98	2½	1/4
Lincoln, 8.....1930	83⅛	2½	1/4	46⅜	1¾	1/4
Locomobile, 48.....17-28	98	3	5/16	58	2½	5/16
(Front wheels).....	50	2½	5/16	N	N	N
Locomobile Jr., 8...25-26	136	1¾	5/16	68	1¾	5/16
Locomobile, 90.....26-29	180⅜	2	5/16	90⅜	2	5/16
Locomobile, 8-70...26-28	136	1¾	5/16	68	1¾	5/16
Locomobile, 8-80...26-28	156	2	5/16	78¼	2	5/16
Locomobile, 48.....1929	52	2½	5/16	59	2½	5/16
	97¼	3	5/16	.....	.....	.....
Locomobile, Others.1929	154	2	5/16	77	2	5/16
McFarlan, SV.....24-26	144	2	5/16	25	2	5/16
McFarlan, TV.....24-25	160	2½	5/16	94	2½	5/16
McFarlan, St. 8....25-28	144	2	5/16	25	2	5/16
McFarlan, TV.....26-28	163	2½	5/16	94	2½	5/16
Marmon.....17-26	108	2	5/16	95	1½	5/16
Marmon, Little.....1927	144	2	5/16	144	2	5/16
Marmon, E-75.....27-28	180	2	5/16	90	2	5/16
Marmon, 68, 78....28-29	128¼	1¾	5/16	128¼	1¾	5/16

Digitized by Google

BRAKE LINING SIZES—Passenger Cars—Continued

Passenger Car Make, Model and Year	Service			Emergency		
	Total Length	Width	Thickness	Total Length	Width	Thickness
Marmon Roosevelt..1930	97¾	1½	5/32	97¾	1½	5/32
Marmon Eight 69..1930	106	1½	5/32	.....	.....	.....
Marmon Eight 79..1930	121½	2	3/16	121½	2	3/16
Marmon Big Eight..1930	132	2	3/16	132	2	3/16
Marquette.....1930	105	1¾	3/16	.....	.....	.....
Maxwell, 4.....1925	68	1¾	3/16	25	2	3/16
Mercer, All.....1925	72	2½	3/16	18	2½	3/16
(Front wheels).....	66	1¾	3/16	.....	.....	.....
Moon, A.....24-25	112	1½	3/16	18	2	3/16
Moon, New & Met..1925	109	1¾	3/16	24	2	3/16
Moon, London.....25-26	136	2	3/16	84	2	3/16
Moon, A.....26-28	116	1¾	3/16	18	2	3/16
Moon, 6-60, 6-72...26-28	114	1¾	5/32	18	2	3/16
Moon, 8-80.....1928	124	1¾	5/32	24⅝	2	3/16
Moon, 6-72.....1929	114	1¾	5/32	18⅝	2	5/32
Nash, Adv.....1925	89	2½	5/32	17	3½	3/16
(Front wheels).....	65	2	5/32	N	N	N
Nash, Spec.....1925	127	2	5/32	19	2½	3/16
Nash, Adv.....1926	77	2½	5/32	17	3½	3/16
(Front wheels).....	77	2	5/32	N	N	N
Nash, Spec.....1926	64	2½	5/32	19	2½	3/16
(Front wheels).....	64	2	5/32	N	N	N
Nash Lt. 6.....26-27	110	1¾	5/32	16¼	1¾	5/32
Nash, Adv..... 1927	89	2½	5/32	16½	3½	3/16
	63¼	2	5/32	.....	.....	.....
Nash, Spec.....27-28	127	2	5/32	13½	2½	3/16
Nash, Std. 6.....28-29	105⅛	1¾	5/32	66½	1¾	5/32
Nash, Adv.....1928	153	2½	5/32	16⅜	3½	3/16
Nash, Spec.....1929	131⅝	2	5/32	13¾	2½	3/16
Nash, Adv.....1929	63¼	2	5/32	13⅝	2½	3/16
	89	2½	5/32	.....	.....	.....
Nash Single 6.....1930	135	1¾	3/16	.....	.....	.....
Nash Twin Ign. 6...1930	112	1¾	3/16	.....	.....	.....
Nash Twin Ign. 8...1930	126½	2	3/16	.....	.....	.....
Oakland, 6.....24-28	139	1⅞	5/32	17	2½	3/16
Oakland, AA6.....1929	145	2	3/16	37	2	3/16
Oakland, 8.....1930	134⅝	1¾	3/16	134⅝	1¾	3/16
Oldsmobile, 30.....25-26	74	1¾	5/32	19	2	3/16
Oldsmobile, 30E...1927	130½	1¾	3/16	75	1¾	3/16
Oldsmobile, F-28...1928	139⅜	1¾	3/16	.....	.....	.....
Oldsmobile, F-29...1929	138⅛	1¾	3/16	74	1¾	3/16
Oldsmobile, F-30...1930	107	1½	3/16	107	1½	3/16
Overland, 4.....25-26	63	1½	5/32	55	1¼	5/32
Overland, 6.....25-26	70	1⅞	5/32	18	2	3/16
Overland, 4.....1927	116½	1½	5/32	58¼	1½	5/32
Packard, 6.....24-25*	139	2	¼	85	2	¼
Packard, 6.....*25-26	144	2	¼	79	1¾	3/16
Packard, 8.....24-25*	83	2½	¼	54	2	¼
(Front wheels).....	54	2	¼	N	N	N
Packard, 8.....*25-26	83	2½	¼	62	2	¼
(Front wheels).....	62	2	¼	N	N	N
Packard, 6.....1927	158	2	¼	79	2	¼
Packard, 8.....1927	180	2	¼	90	2	¼
Packard, 526, 533...1928	154	2	5/16	77	2	5/16
Packard, 443.....1928	182	2	5/16	91	2	5/16
Packard, All.....1929	180¼	2	5/16	90⅛	2	5/16
Packard, 726, 733...1930	180⅞	1¾	5/16	90⅞	1¾	5/16
Packard 740, 745...1930	180⅞	2	5/16	90⅞	2	5/16
Paige, 21-25.....24-25†	89	2½	5/16	25	2	5/32
Paige, 24-26 (125"). 1926	139	2	5/16	25	2	5/32
Paige, 24-26 (115")..§1926	116	1¾	5/32	.....	1¾	...
Paige, 21-25.....†1925	160	2	5/16	25	2	5/32
Paige, 6-45.....1927	114½	1½	5/16	18⅝	2	5/32
Paige, 6-65.....1927	116	1¾	5/16	24⅝	2	5/32
Paige, 6-75, 8-85....1927	139	1¾	5/16	24⅝	2	5/32
Peerless, 66-69.....24-26	162	2	5/16	88	2½	3/16
Peerless, 70-2.....25-26	150	2	5/16	82	1¾	3/16
Peerless, 6-72.....1927	144	1¾	¼	78	1¾	5/32
Peerless, 6-80, 6-90, 6-91.....26-28	141	2	5/32	19⅜	1¾	5/32
Peerless, 8-69.....27-28	153	2	5/16	85	1¾	5/32
Peerless, 6-81, 125..1929	.....	.....	.....	19⅜	1¾	5/32
Peerless, 6-91.....1929	.....	2	5/32	19⅜	1¾	5/32
Peerless 61-A.....1930	44	1¾	5/16	19⅜	1¾	5/32
Peerless Master 8...1930	.....	2	5/16	.....	2	3/16
Peerless Custom 8...1930	.....	2	5/16	.....	2	3/16
Pierce-Arrow, 32-3..21-26	103	3¼	5/16	68	2¾	3/16
Pierce-Arrow, 80,81 24-28	116	2	5/16	58	2	5/16
Pierce-Arrow, 36...27-28	58	2¾	5/16	67	2¾	1/4
	67	2¾	5/16	.....	.....	.....
Pierce-Arrow, All...1929	155½	2¼	5/16	24⅛	2	3/16
Pierce-Arrow, All...1930	98	2¼	5/16	98	2¼	3/16
Plymouth.....1929	.....	1½	...	21⅜	2	5/32
Plymouth.....1930	22½	1½	5/16	21⅜	2	5/32
	18½	1½	5/16	.....	.....	.....
Pontiac, 6.....26-27	68	2	5/32	56	1¼	5/32
Pontiac Six.....1928	36⅛	1½	5/32	66	2	5/32
	67⅝	2	5/32	.....	.....	.....
Pontiac Six.....1929	128	1½	5/32	18½	1½	5/32
Pontiac 6-30.....1930	118¼	1½	5/16	118¼	1½	3/16
Reo, T6.....24-26	92	2½	5/16	81	2½	3/16
Reo, A.....1927	119	1¾	5/16	19⅝	2½	3/16
Reo, Wolverine.....27-28	86	1¾	3/16	23	2	3/16
Reo, Flying Cloud..1928	104	1¾	3/16	19⅝	2½	3/16
Reo, Master, 20, 25.29-30	.....	1¾	3/16	19½	2½	3/16
Reo, Mate, 15.....29-30	.....	1¾	3/16	23	2	3/16
Revere, M.....23-26	96	2¼	3/16	80	2¼	3/16
Revere, 25.....25-26	176	2¼	3/16	25	2¼	3/16
Rickenbacker, B to E 23-26	132	1⅝	5/32	23	2	5/32
Rickenbacker, 6-70 & 8-80.....1927	133	1⅝	5/32	67	1⅝	5/32
Rickenbacker, 8-90.1927	133	1⅝	5/32	22	2	5/32
Roamer. 54, 75.....18-26	99	2¼	3/16	82	2¼	3/16
Roamer, 8-88.....26-30	99	2	3/16	22	2	3/16
Rollin, 4-75.....24-25	99	2¼	3/16	82	2	3/16
Rollin, All.....23-25	98	1½	5/32	.....	.....	.....
Rolls Royce, 40, 50.20-26	113	2	¼	120	1¾	3/16
Rolls Royce, S. Gh. & N. Phan. 1927	113	2	¼	120	1¾	3/16
Roosevelt.....1929	97¾	1½	5/32	24⅞	1½	5/32
Star, 4 & 6.....24-27	58	2	5/32	62	1¾	5/32
Star, 4.....1928	118½	1½	5/32	118½	1½	5/32
Stearns-Kni., S. C...19-25	94	2½	3/16	74	1½	7/32
Stearns-Kni., B.....24-25	88	2½	3/16	83	1¾	7/32
Stearns-Kni., All... 1926	158	2	3/16	79	2	3/16
Stearns-Kni., F6-85.27-28	156	2	3/16	78	2	3/16
Stearns, G8-85, H&J.27-28	177½	2½	¼	88¾	2½	¼
Stearns-Kni., M&N.1929	.....	2	3/16	80⅞	1⅝	5/32
Stearns-Kni., H&J..1929	.....	2½	¼	177¾	2½	¼
Sterling Knight, B..24-25	92	2	3/16	88	1¾	3/16
Stevens-Duryea.....21-25	101	2½	3/16	94	2½	3/16
Studebaker, Sp..... & B-6.....25-26	92	2½	3/16	25	3	3/16
Studebaker, Std. 6..25-26†	86	2¼	3/16	25	2	3/16
Studebaker, Std. 6.. †1926	186	2¼	3/16	24⅝	2	3/16
Studebaker, Sp..... & B. 6.....†1926	204	2½	3/16	24⅝	3	3/16
Studebaker, Dic....28-29	128¼	1¾	3/16	25	2	3/16
Studebaker, Com...1928	153	2	3/16	25	2	3/16
Studebaker, Pres. 8.1928	153	2	3/16	24⅛	2	3/16
Studebaker, Com. 6 & 8.....29-30	135	1¾	3/16	135	1¾	3/16
Studebaker, Pres...1929	160	2¼	3/16	40	2¼	3/16
Studebaker, Pres....1930	128	2¼	3/16	128	2¼	3/16
Stutz, 690-4.....23-25	87	2	3/16	88	1¾	3/16
Stutz, 695.....24-25	160	2	3/16	88	2½	3/16
Stutz, AA.....1926	150	1¾	3/16	19	2½	3/16
Stutz, AA.....1927	162	1⅞	3/16	18½	2½	3/16
Stutz, BB.....1928	136	1¾	3/16	20	2½	3/16
Stutz Series M.....29-30	136	1¾	3/16	20	2¼	1/8
Velie, 60.....25-26s	141	2	5/32	25	2	5/32
Velie, 60.....s1926	170	2	5/32	24¼	2	5/32
Velie, Std. 50.....1927	118	1¾	5/32	19	2	5/32
Velie, Spec. 60.....1927	141	2	5/32	24½	2	5/32
Velie, Std. 50, 6-66..1928	103	1¾	3/16	19	2	5/32
Velie, 6-77, 8-88....1928	103	1¾	3/16	23	2	5/32
Viking, V-29, V-30..1929	60¾	2	3/16	30⅜	2	3/16
Westcott.....22-25	89	2½	3/16	80	2½	3/16
Westcott, C-44.....23-25	96	2½	3/16	23	2	5/32
Westcott, 60.....1925	88	2	5/32	23	2	5/32
Whippet, 96A.....1930	39½	1½	5/32	69¾	1⅞	5/32
	69¾	1⅞	5/32	.....	.....	.....
Whippet, 98A.....1930	49	1½	5/32	69¾	1⅞	5/32
	69¾	1⅞	5/32	.....	.....	.....
Wills Ste. C., T6...25-27	144	2¼	3/16	13	6	3/16
Willys-Knight, 65..1925	86	1⅞	3/16	81	1⅝	5/32
Willys-Knight, 66...25-26	110	2	3/16	81	1⅜	5/32
Willys-Kni. 70, Sp. 6 26-28	141	1¾	3/16	.....	.....	3/16
Willys-K., 66, Great 627-28	.....	.....	.....	81	1⅝	5/32
Willys-K., Std. 6, 70 B28-30	64⅛	1¾	3/16	69¾	1⅞	5/32
	69¾	1⅞	5/32	.....	.....	.....
Willys-Kni. 66B....1930	121⅛	2	3/16	121⅛	2	3/16
Willys Six 98B 1930	98	1½	5/32	98	1½	5/32
Windsor, 8-82, 8-92.1929	72	2	5/32	24⅝	2	5/32
Windsor, 6-69, 6-75.1930	110½	1¾	3/16	18⅝	2	5/32
Windsor, 8-85.....1930	144	2	5/32	24⅝	2	5/32
Windsor, 8-82.....1930	110½	1¾	3/16	24⅝	2	5/32

† July §May s September °August e Early L Late * March. ‡ June.

Digitized by Google

Brake Lining Sizes—Commercial Vehicles

For Passenger Car Brake Lining Sizes See Pages 329-330.
For Rivet Sizes, Interchangeability and Specifications See Page 280.

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL	SERVICE Total Length	SERVICE Width	SERVICE Thickness	EMERGENCY Total Length	EMERGENCY Width	EMERGENCY Thickness
Acason						
1919-22 1	90	3	1/4	90	3	1/4
1919-22 1½	96	3 1/4	1/4	96	3 1/4	1/4
1919-20 2	108	3 1/2	1/4	108	3 1/2	1/4
1919-24 5	146	4	1/4	146	4	1/4
1923-24 2½	132	3 1/2	1/4	132	3 1/2	1/4
Ace						
1920-26 1½	48	3 1/4	1 1/4	48	3 1/4	1 1/4
1920-26 3	204	2 1/4	1/4	204	2 1/4	1/4
1921-26 2½	52	3 1/2	1/4	52	3 1/2	1/4
1926 Bus	124	3 3/4	1/4	124	3 3/4	1/4
Acme						
1922-24 40, 40L	192	3 1/4	1/4	192	3 1/4	1/4
1922-26 60, 60L	208	3 1/2	1/4	208	3 1/2	1/4
1922-24 125	72	4	1/4	72	4	1/4
1920 1	44	3	1/4	44	3	1/4
1921-23 G, 20	44	2 1/2	1/4	44	2 1/2	1/4
1921-24 B, 30	44	3	1/4	44	3	1/4
1921 F	46	3 1/4	1/4	46	3 1/4	1/4
1922-26 90, 90L	63	3 3/4	1/4	63	3 3/4	1/4
1923-24 K	63	3 3/4	1/4	63	3 3/4	1/4
1925-26 21	85	2 1/2	1/4	47	2 1/4	1/4
1925-26 20L	46	3 3/4	1/4	46	3	1/4
1925-26 41	48	3 1/4	1/4	48	3 1/4	1/4
1925-26 116-118	48	2 1/2	5/16	48	2 1/2	5/16
Acorn						
1927 15	68	2 1/2	5/16	68	1 1/4	5/16
1927 30, 40, 45	90 1/2	3 1/4	1/4	.....	.....	.....
1927 50	104	3 1/2	1/4	.....	.....	.....
1927 70, 80	121	3 3/4	1/4	.....	.....	.....
American La France						
1923-26 W	.....	.....	1/4	68	3 1/2	1/4
1923-26 Y-S-V-Z-U	23 1/2	8	1/4	84	4	1/4
1926 4R	63	3 1/2	5/16	D	D	D
	68	3 1/2	1/4			
1928-29 Big Chief	D	D	D	68	3 1/2	1/2
Armleder						
1920-25 1½	47	3 1/4	1/4	47	3 1/4	1/4
1920-25 2½	54	3 1/2	1/4	54	3 1/2	1/4
1920-26 3½	37	3	5/16	126	3 3/4	1/4
1926-27 30, 30B	47	3 1/4	1/4	47	3 1/4	1/4
1926-27 50, 55	54	3 1/2	1/4	54	3 1/2	1/4
1926-27 70	20 1/4	6	1/4	126	3 3/4	1/4
1926-27 60	63	3 3/4	1/4	63	3 3/4	1/4
1928 30, 30-6, 40	48	3 1/4	1/4	48	3 1/4	1/4
1928 50, 50-6	52	3 1/2	1/4	52	3 1/2	1/4
1928 60	62	3 3/4	1/4	62	3 3/4	1/4
1928 70	23	6	1/4	124	3 3/4	1/4
1930 31	123 1/2	2 1/4	5/16	22	2 1/2	5/16
1930 41	61 3/4	2 1/4	5/16	.....	.....	.....
	63 1/2	4	1/4			
1930 61	61 3/4	2 1/4	5/16	.....	.....	.....
	63 1/2	4	1/4			
Atterbury						
1917-21 7R, 7C	106	3 1/2	1/4	106	3 1/2	1/4
1920-26 1½	90	3 1/4	1/4	90	3 1/4	1/4
1922-26 22C	106	3 1/2	1/4	106	3 1/2	1/4
1919-26 3½	121	3 3/4	1/4	121	3 3/4	1/4
1924-25 24E	68 3/4	4	1/4	68 3/4	4	1/4
1930 A	48	1 3/4	5/16	24	2	5/16
1930 K	48	1 3/4	5/16	24	2	5/16
1930 G	60	2 1/4	5/16	24	2	5/16
1930 H	60	2 1/4	5/16	24	2 1/2	5/16
1930 R	60	2 1/4	5/16	24	2 1/2	5/16
1930 C	48	5	1/4	24	3 1/4	1/4
Autocar						
1917-26 F-1½	65	2 1/2	7/32	54	2 1/2	7/32
1920-27 M-5	94	2 3/4	1/4	94	2 3/4	1/4
1922-27 H-2½	82	2	1/4	82	2	1/4
1925-27 H-3-3½	94	2 3/4	1/4	94	2 3/4	1/4
1926 A-1½	181	2 1/2	5/16	.....	.....	.....
1927 A-1½-2	181	F 2 1/2 R-3	1/4	.....	.....	.....
1929-30 SA-1½, 2	31	2 1/4	5/16	40	4	1/4
	40	4	1/4			
1929-30 H-3, HS-3½	82	2	1/4	41	2	1/4
1929-30 CH-3	40	4	1/4	....	3	1/4
1929-30 HS-3½	92	2 3/4	1/4	46	2 3/4	1/4
1929-30 CHS-3½, TA-3, TAS-3	40	5 1/2	1/4	.....	3	1/4
1929-30 SCM-5	92	2 3/4	1/4	.....	3	1/4
Available						
1920-22 2½	108	3 1/2	1/4	108	3 1/2	1/4
1920-23 7	144	3 1/2	1/4	144	3 1/2	1/4
1922-25 1½-2	96	2 1/2	1/4	72	2 1/2	1/4
1923-25 2½	108	3 1/2	1/4	108	3 1/2	1/4
1919-25 3-3½	128	3 3/4	1/4	128	3 3/4	1/4
1919-25 5	144	4	1/4	144	4	1/4

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL	SERVICE Total Length	SERVICE Width	SERVICE Thickness	EMERGENCY Total Length	EMERGENCY Width	EMERGENCY Thickness
Bell						
1920-22 E	78	2 1/2	5/16	96	3	1/4
1920-23 O	96	2 1/2	5/16	108	3	1/4
1920-23 MI	72	2 1/2	5/16	84	3	1/4
Bessemer						
1919-21 K2	117	3 1/2	5/16	30 1/4	4 1/2	5/16
1919-21 J, H	113	2 1/2	3/4	110	2 1/4	5/16
1919-21 G-1	95	2 1/2	5/16	91	2 1/4	5/16
1922-25 G-1	92	2 1/2	5/16	88	2 1/4	5/16
1922-24 K2-4	110	3 1/2	1/4	33	4 1/2	1/4
1922-25 H2-1½	66	2	1/4	66	2	1/4
1922-25 J2-2½	74	2 1/4	1/4	74	2 1/4	1/4
Bethlehem (See Lehigh 1926)						
1920-22 KN-1	99	2 1/4	5/16	78	2 1/4	5/16
1922 SM-2	104	2 1/2	5/16	74	2 1/2	5/16
1922-25 HM-3	103	2 1/2	5/16	94	2 1/2	5/16
1923-25 KN-1	82	1 3/4	5/16	82	1 3/4	5/16
1923-25 GN-2-L	102	2 1/2	5/16	74	2 1/2	5/16
Biederman						
1925 20-1-1½	86	2 1/4	5/16	86	2 1/4	5/16
1925-26 30-1¼-2	96	3	1/4	96	3	1/4
1925-26 40-1½-2½	96	3 1/4	1/4	96	3 1/4	1/4
1925 60-2½-3½	104	3 1/4	1/4	104	3 1/2	1/4
1925-26 80-3½-5	124	3 3/4	1/4	124	3 3/4	1/4
1926 20	84	2	5/16	84	2	5/16
1926 60	108	3 1/2	1/4	108	3 1/2	1/4
Bridgeport						
1925 A-1½	45 1/2	3 1/4	1/4	45 1/2	3 1/4	1/4
1925 B-2½	52	3 1/2	1/4	52	3 1/2	1/4
1925 C-4	61	3 3/4	1/4	61	3 3/4	1/4
Brockway						
1919-22 K	96	3 3/8	5/16	96	3 3/8	5/16
1919-22 T	144	4	5/16	144	4	5/16
1919-24 S2-1½	160	2	5/16	160	2	5/16
1923-26 K4-2½	104	3 1/2	1/4	104	3 1/2	1/4
1919-26 R2-2½	120	2 3/4	1/4	120	2 3/4	1/4
1920-26 T-5	142	4	1/4	142	4	1/4
1925 S-1½	80	3 1/4	1/4	80	3 1/4	1/4
1926 S-2	90	3 1/4	1/4	90	3 1/4	1/4
Buck						
1925-26 J-24, 34	90	2 1/2	1/4	90	2 1/2	1/4
1925-26 K-45, 44	96	3 1/4	1/4	96	3 1/4	1/4
1925 50, 80, L75	108	3 1/2	1/4	108	3 1/2	1/4
1925 L-110, 100	128	3 3/4	1/4	128	3 3/4	1/4
1925 B-120, 130	128	3 3/4	1/4	128	3 3/4	1/4
1926 64-3	108	3 1/2	1/4	108	3 1/2	1/4
1926 84-5	128	3 3/4	1/4	128	3 3/4	1/4
1925-27 34-36	46	3 1/4	1/4	46	3 1/4	1/4
1925-27 44-46	46	3 1/2	1/4	46	3 1/2	1/4
1925-27 64-66	52	3 1/2	1/4	52	3 1/2	1/4
1925-27 84-86	60	3 3/4	1/4	60	3 3/4	1/4
1925-27 94-96	....	4	1/4	.....	4	1/4
Chevrolet						
1923-25 Sup. Comm. Chassis.	59 1/4	1 1/2	5/32	57 1/4	1 3/4	5/32
1923-25 Util. Exp.	74	2	5/16	65 1/4	1 3/4	5/16
1925-26 X	74	2	5/16	67	1 3/4	5/32
1927 Com.	67	2	5/32	56	1 3/4	5/32
1927-28 LM-1	74	2	5/16	67	1 3/4	5/32
1928 Util. Exp.	34 1/4	1/2	.145	.....	.....	.....
	74	2	5/16			
1928 Comm. Chassis	34 1/4	1 1/2	.145	56	1 3/4	5/32
	67 3/16	2	5/16			
1929 Comm. Chassis	34 1/4	1 3/4	.145	56	1 3/4	5/32
	59 25/32	2	5/16			
1929 1½	34 1/4	1 1/2	.145	66 5/16	1 3/4	5/32
	74	2	5/16			
Chicago						
1919-22 1¼-2½	96	3 1/4	1/4	96	3 1/4	1/4
1923-24 1½-2½	84	2 1/2	1/4	84	2 1/2	1/4
1923-24 3½-5	100	3 1/4	1/4	96	2 1/4	1/4
1925-26 10-1	109	3 1/4	5/16	109	3 1/4	5/16
1925-26 15-1½	95	3 1/4	1/4	95	3 1/4	1/4
1925-26 25-2½	106	3 1/2	1/4	106	3 1/2	1/4
1925-26 35-3½	121	3 3/4	1/4	121	3 3/4	1/4
1925-26 50-5	144	4	1/4	144	4	1/4
Clinton						
1923 1¼	87	2 1/2	1/4	87	2 1/2	1/4
1922-26 2	94	3 1/2	1/4	94	3 1/2	1/4
1923-26 3	106	3 1/2	1/4	106	3 1/2	1/4
1923-26 4	125	3 3/4	1/4	125	3 3/4	1/4
1922-26 5-7	144	4	1/4	144	4	1/4
1924-26 1¼	94	3 1/4	1/4	94	3 1/4	1/4

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL	SERVICE Total Length	SERVICE Width	SERVICE Thickness	EMERGENCY Total Length	EMERGENCY Width	EMERGENCY Thickness
Clydesdale						
1922-24 20-18 3/4-1 1¼	92	3	1/4	92	3	1/4
1924-25 10-¾-1¼	92	2 1/2	1/4	92	2 1/2	1/4
1922-25 ¾-1¼	92	2 1/2	1/4	92	2 1/2	1/4
1918-25 5-6	144	4	1/4	144	4	1/4
1921-25 3½-4¼	128	3 3/4	1/4	128	3 3/4	1/4
1918-25 2½-3	106	3 1/2	1/4	106	3 1/2	1/4
Columbia						
1919-22 F-1	80	2 1/2	5/16	81	1 3/4	5/16
1919-23 G-2½	110	3	5/16	100	2	5/16
1924-25 H-1½	92	1 3/4	1/4	92	1 3/4	1/4
1924-25 G, K-2½, 3	104	2	1/4	104	2	1/4
Commerce						
1919-21 EP-16	90	2 1/2	5/32	87	2 1/4	5/32
1920-25 T, 9, 11	100	2	5/32	97	2	5/32
1922 12-18	101	2 1/2	5/16	97	2 1/4	5/16
1923-26 25	104	3 1/2	1/4	104	3 1/2	1/4
1923-26 14	91	3 1/4	1/4	91	3 1/4	1/4
1926 7-11	42	2	5/16	42	2	5/16
1926 30	61	3	1/4	16	6 1/2	1/4
1928 20Z, 25Z, S11Z	121	2 1/4	3/4	24 3/8	4	1/4
1928-29 30Z	60 1/2	2 1/4	5/16	24 3/8	4	1/4
	57 5/8	3 1/2	1/4	.....	.....	.....
1928-29 40Z	60 1/2	2 1/4	5/16	24 3/8	4	1/4
	57 5/8	3 1/2	1/4	.....	.....	.....
1928-29 50Z	60 1/2	2 1/4	5/16	60	3	1/4
	99	5	5/16	.....	.....	.....
1928-29 60Z	60 1/2	2 1/4	5/16	60	3	1/4
	99	5	5/16	.....	.....	.....
1928-29 70Z	121	3 3/4	1/4	39 1/2	4 1/2	1/4
1928-29 80Z	121	3 3/4	1/4	39 1/2	4 1/2	1/4
1929 20Y	121	2 1/4	1/4	22 7/8	2	5/16
1929 S11Y	121	2 1/4	1/4	22 7/8	2	5/16
Concord						
1919-26 A, H-2	96	3 1/4	1/4	96	3 1/4	1/4
1920-26 2-3	108	3 1/2	1/4	108	3 1/2	1/4
1924-25 E-1	96	3	1/4	96	3	1/4
1926 EO	88	3	1/4	88	3	1/4
1926 Bus	52	5	1/4	52	5	1/4
Corbitt						
1919-23 AA-5	139	3	1/4	139	3	1/4
1924-25 AA-5	124	4	5/16	124	4	5/16
1919-23 BC-2½	103	2 1/4	1/4	103	2 1/4	1/4
1919-23 H, E, S	76	2	5/16	76	2	5/16
1919-23 A-3½	128	2 1/2	1/4	128	2 1/2	1/4
1919-23 D-1½	91	2	1/4	91	2	1/4
1924-26 D-1½	72	2	1/4	72	2	1/4
1924-26 C, B, R-2-3	89	2 1/4	1/4	89	2 1/4	1/4
1924-25 ¾-1	134	1 3/4	5/16	134	1 3/4	5/16
1926 A, AA	84	4	1/4	84	3	1/4
1927 20	.....	2 1/4	1/4	.....	2 1/4	1/4
1927 25	72	2	1/4	72	2	1/4
1927 40	.....	3 1/4	1/4	.....	4	1/4
1927 50	.....	3 1/2	1/4	.....	4	1/4
1927 A	.....	3 3/4	1/4	.....	3 3/4	1/4
1927 70	.....	4	1/4	.....	4	1/4
C. T. Electric						
1924-26 C6-7 A7-10	74	2 1/2	1/4	74	2 1/2	1/4
1925-26 H, F1-2-5	86	3	1/4	86	3	1/4
1925-26 F-4	106	3 1/2	1/4	106	3 1/2	1/4
1925-26 F7-10	126	3 3/4	1/4	126	3 3/4	1/4
Day-Elder						
1920-22 A-B	176	2	1/4	176	2	1/4
1920-22 D-2	90	2	1/4	90	2	1/4
1920-22 C-2½	104	2 1/4	1/4	104	2 1/4	1/4
1920-22 F-3½	112	2 1/2	1/4	112	2 1/2	1/4
1920-22 E-5	138	3	1/4	138	3	1/4
1923-24 AN-1½	84	3	1/4	84	3	1/4
1923-25 BN, G, H, 1½-2	94	3 1/4	1/4	94	3 1/4	1/4
1923-25 CN, DN, I, J, 2-3	106	3 1/2	1/4	106	3 1/2	1/4
1923-25 FM, K, 4	125	3 3/4	1/4	125	3 3/4	1/4
1923-26 EN, L, 5-6	144	4	1/4	144	4	1/4
1926 20 Bus, G, H	91	3 1/4	1/4	91	3 1/4	1/4
1926 25 Bus, I	104	3 1/2	1/4	104	3 1/2	1/4
1926 30 Bus, J, K	121	3 3/4	1/4	121	3 3/4	1/4
1926-27 G	47	3 1/4	1/4	47	3 1/4	1/4
1926-28 H	47	3 1/4	1/4	47	3 1/4	1/4
1926-28 I	52 3/4	3 1/2	1/4	52 3/4	3 1/2	1/4
1926-28 J	52 3/4	3 1/2	1/4	52 3/4	3 1/2	1/4
1926-27 K	62 1/2	3 3/4	1/4	61 1/2	3 3/4	1/4
1926-28 L	71 3/4	4	1/4	71 3/4	4	1/4
1927 M	94	2 1/2	1/4	93	2 1/4	5/16
1928 M	47	2 1/4	1/4	45	2 1/4	1/4
1928 G, HB6	44	2 1/4	5/16	44	2 1/4	5/16
1928 K	63	3 1/4	1/4	63	3 1/4	1/4
1928 30 Bus	71 3/4	3 1/4	1/4	71 3/4	3 1/4	1/4

Digitized by Google

BRAKE LINING SIZES—Commercial Vehicles—Continued

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL		SERVICE			EMERGENCY		
		Total Length	Width	Thickness	Total Length	Width	Thickness
Day Elder—Cont.							
1929-30	MF	51¾	1¾	5/16	23½	2	5/16
		61⅜	2¼	5/16			
1929-30	GF	122¾	2¼	5/16	23½	2	5/16
1929-30	HF	122¾	2¼	5/16	25	2½	5/16
1929-30	HBF	122¾	2¼	5/16	25	2½	5/16
1929-30	JF	61¼	4	5/16	21	2⅝	¼
		61⅜	2¼	5/16			
1929-30	KF	102¼	5	5/16	23¼	2⅝	¼
		69½	3	5/16			
1929-30	30 Bus	122½	5	5/16	23¼	2⅝	¼
Defiance							
1920-22	B-E-EL	90	2½	5/32	87	2¼	5/32
1920-22	C-D	109	2½	5/32	105	2¼	5/32
1923	E-2	94	2½	5/16	66	2½	5/16
1923-24	EL	109	2½	5/16	105	2¼	5/16
1922-24	G, GL2-1¼	80	1¾	5/16	80	1¾	5/16
1924	H-HL2-3	122	2½	5/16	94	2½	5/16
1925-26	A-1½	72	2¼	5/16	72	1½	5/16
1926	F-1½	39	2½	5/16	39	1¼	5/16
1926	H-3	103	2¼	¼	103	2¼	¼
1928	FT-1	42	2¼	5/16	42	2¼	5/16
1928	O2-E2	48	3	5/16	36	2½	5/16
1928	B3	49	5	5/16	36	2½	5/16
Dixon							
1921-26	D	96	3¼	¼	96	3¼	¼
1923-26	C	104	3½	¼	104	3½	¼
1923-26	A, B	124	3¾	¼	124	3¾	¼
Denby							
1919-21	12-1	87	2½	5/16	79	1¾	5/16
1919-21	13-1½	103	2½	5/16	94	2	5/16
1919-21	25-2½	112	3	5/16	102	2	5/16
1920-21	27	103	3	5/16	90	2¼	5/16
1920-21	210-5	178	2¼	5/16	178	2¼	5/16
1921-22	33-1½	17	4	¼	92	1½	5/16
1921-22	31	98	2½	5/16	95	2¼	5/16
1922-24	33	98	2½	5/16	21	4	¼
1922-23	36	102	3	5/16	21	4	¼
1923-24	27	116	2½	5/16	26	6	¼
1923-24	210	178	2¼	5/16	26	6	¼
1922-24	41-1	92	2½	¼	97	2¼	5/16
1923-24	43-35, 2½-3	98	3	5/16	21	4	¼
Diamond T							
1921-26	T-1½	92	3¼	¼	92	3¼	¼
1923-26	U2-U3, 2-2½	106	3½	¼	106	3½	¼
1921-26	3½-K	125	3¾	¼	125	3¾	¼
1922-25	O3, 1-1¼	96	2½	5/16	66	2½	5/16
1921-26	EL-S, 5	144	4	¼	144	4	¼
1923-26	75, 1	44	2½	¼	47	2¼	5/32
1926	T4, 1½-2	82	2¼	¼	82	2¼	¼
1926-27	76	88	2½	¼	94	2¼	5/32
1926-27	T3	46	3¼	¼	46	3¼	¼
1926-27	T4	82	2¼	5/16	82	2¼	5/16
1926-27	U4-5	53	3½	¼	53	3½	¼
1926-27	K2-3	63	3¾	¼	63	3¾	¼
1926-27	S2-3-7	72	4	¼	72	4	¼
Dodge Brothers							
1919-25	¾	77	2¼	1/16	58	1¾	1/16
1925-26	¾	79½	2¼	5/16	71	1¾	5/16
1928	Senior	107	1¾	5/16	17 15/32	2½	5/16
1929	½	142 5/8	2	5/16	17 15/32	2½	5/16
1929	¾	60¼	1¼	5/16	17 15/32	2½	5/16
		46½	1¾	5/16			
1929	1	111¼	2	5/16	21½	2	5/16
1929	1½, 2	61¼	2	5/16	21½	2	5/16
		54½	2¾	5/16			
1929	3	116¾	3½	¼	21½	2	5/16
Double-Drive							
1920-21	B3	58	2¼	½	58	2½	½
1922-23	D3, B4	171½	4	¼	72	4	¼
1924-26	TT-3	173½	4	¼	72	4	¼
Douglas							
1928	B4-B6	98	5	¼	72	2½	5/16
1928	C4-C6	98	5	¼	72	2½	5/16
1928	D4-D6	94	3	¼	65	2½	5/16
1928	DS4-6	114	3	¼	85	2½	5/16
Duplex							
1919-24	E-3½	152	2½	¼	104	2½	¼
1920-22	A-GH	152	2	5/16	152	2	5/16
1923-26	A	160	2¼	¼	160	2¼	¼
1923	GH	144	2	5/16	144	2	5/16
1924-26	GH-1½	152	2	¼	152	2	¼
1924-26	G-1	88	2½	¼	88	2½	¼
1924-25	AC-3	202	2	¼	202	2	¼
1926	AC-3	160	2¼	¼	160	2¼	¼
1924-25	FD	204	2	¼	204	2	¼
1925-26	E-EF-3½	40	4	¼	40	4	¼
1927	GF-1½	24	3¼	¼	24	3¼	¼
1927	GS-1½	24	3¼	¼	24	3¼	¼
1927	S-2	28	3½	¼	28	3½	¼
1927	FAC-3	33	3¾	¼	33	3¾	¼
1927	SAC-3	33	3¾	¼	33	3¾	¼
1927	EF-3½	22	4	¼	22	4	¼
Eagle							
1921-25	100-104						
	2-3	99	3	5/16	92	2	5/16
1922-25	101-1¼	84	2½	5/16	84	2¼	5/16
1925	105-2-3	116	2½	5/16	88	2½	5/16
Eight-Wheel Bus							
1925	.....	200	2¾	5/16	200	1½	5/16
Electruck							
1926	48, 39	80	3	¼	80	3	¼
1926	27	120	4	¼	120	4	¼
Erskine							
1928	Del.	118¾	1½	5/16	118¾	1½	5/16
Fageol							
1919-24	1½-2	154	1¾	5/16	77	1¾	5/16
1922-24	2½-3	106	3½	¼	106	3¼	¼
1922-24	5-6	142	4	5/16	142	4	5/16
1925-26	1½-2	96	3¼	¼	96	3¼	¼
1925-26	3 ton Buses	108	3½	¼	108	3½	¼
1925-26	4	126	3¾	¼	126	3¾	¼
1925-26	6	144	4	¼	144	4	¼
1926	360-3	104	3½	¼	104	3½	¼
1927	1½	156	2¼	5/16	.....	.....	.....
1927	2½	104	3½	¼	.....	.....	.....
1927	3	121	3¾	¼	.....	.....	.....
1927-28	3	104½	5	¼	35½	3½	¼
1927-28	4	121	3¾	¼	40¼	4	¼
1927	5½	132	4	¼	.....	.....	.....
1928	1½-2	78	2¼	5/16	78	2¼	5/16
1928	2½	48	3¼	¼	48	3¼	¼
1928	485, 685	142	4	¼	40¼	4	¼
Federal							
1920-23	SD-1	87	3	¼	87	3	¼
1922-26	R-¾-1¼	87	2½	¼	87	2½	¼
1919-23	2½	106	3½	¼	106	3½	¼
1919-26	Series X	144	4	¼	144	4	¼
1922	Light	106	3½	¼	106	3½	¼
1918-26	Series W	125	3¾	¼	125	3¾	¼
1922-25	Series S	90	3¼	¼	90	3¼	¼
1923	Heavy	125	3¾	¼	125	3¾	¼
1923-26	Series U	106	3½	¼	106	3½	¼
1926	Series S	163	2¼	5/16	163	2¼	5/16
1927-28	FW, F6	171¼	2¼	5/16	171¼	2¼	5/16
1927-28	T2B, T6B	94¾	2½	5/16	94¾	2	5/16
1927-28	T2W-T6W	100	3½	¼	29⅝	3½	¼
1927-28	U5-UL5 2B6, 1K6	90⅞	3½	¼	29⅝	3½	¼
1927-28	W4	123¾	3¾	¼	29 17/32	4½	¼
1927-28	X8	142	4	¼	29 17/32	4½	¼
1928	A6	133	2¼	5/16	18¼	3	5/16
1928	T20	90½	3¼	¼	90½	3¼	¼
1928	UL7-3B6-2K6	93⅝	5	¼	29⅝	3½	¼
1928	T3W-T7	66½	2¼	5/16	29⅝	3½	¼
		66⅜	3½	¼			
1928	2FW-2F6	66½	2¼	5/16	18¼	3	5/16
		55⅛	2	5/16			
1929	2FW, 2F6 1	66½	2¼	5/16	18¼	3	5/16
		55⅛	2				
1929	A6, 2	133	2¼	5/16	18¼	3	5/16
1929	T22, 2	45¼	3¼	¼	45¼	3¼	¼
1929	T3W, 2½	100	3½	¼	34¾	3½	¼
1929	T8, 2½	100	3½	¼	18¼	3	5/16
1929	U5, 2½	90⅞	3½	¼	29⅝	3½	¼
1929	UL7, 3C6, 3	129⅝	5	¼	29⅝	3½	¼
1929	W4, 4	123¾	3¾	¼	29 17/32	4½	¼
1929	X8, 7½	142	4	¼	29 17/32	4½	¼
Flint							
1925	RK-1½	85	2¾	5/16	81	2¾	5/16
Ford							
1919-25	T-1	23⅜	1 5/16	5/32	.....	.....	.....
1926	T-1	23½	1 5/16	5/32	48	1⅝	5/16
Fifth Avenue Coach							
1925	J	52	3½	¼	52	3½	¼
1925-26	L	117	2¾	5/16	46	4½	¼
1925	2L	119	4½	¼	46	4½	¼
1926	2L	46	4½	¼	106	4½	¼
Fisher							
1925	FF	128	2¼	¼	128	2	¼
Front Drive							
1920-25	C-1½	.....	4	¼	.....	4	¼
1926	FT	72	4	¼	171½	4	¼
F. W. D.							
1917-25	B	27½	3½	¼	86	2¾	¼
1925	Late 3	109	3½	¼	22	7	¼
1929	U6, H6	32	7	¼	48	3	¼
Garford							
1921-25	15, ¾-1	88	2½	¼	88	2½	¼
1919-26	25-30, 1½	94	3¼	¼	94	3¼	¼
1920-26	70-50, 2½	106	3½	¼	106	3½	¼
1917-26	77-80, 4	125	3¾	¼	125	3¾	¼
1922-26	68D-5	142	3½	¼	142	3½	¼
1917-26	151-5	121	4	5/16	86	4	¼
1926	KB Bus	192	2½	5/16	88	2½	5/16
1926	CB Bus	192	3½	¼	100	2	¼
1928	20Z, 25Z, S11Z	121	2¼	5/16	24 3/8	4	¼
1928-29	30Z	60½	2¼	5/16	24 3/8	4	¼
		57 5/8	3½	¼			
1928-29	40Z	60½	2¼	5/16	24 3/8	4	¼
		57 5/8	3½	¼			
1928-29	50Z	60½	2¼	5/16	60	3	¼
		99	5	5/16			
1928-29	60Z	60½	2¼	5/16	60	3	¼
		99	5	5/16			
1928-29	70Z, 80Z	121	3¾	¼	39½	4½	¼
1929	20Y, S11Y	121	2¼	¼	22⅞	2	5/16
Gary							
1922-23	F-1-1½	88	3	¼	88	3	¼
1922-25	1½-2	96	3¼	¼	96	3¼	¼
1922-25	2½	108	3½	¼	108	3½	¼
1922-25	3½	126	3¾	¼	126	3¾	¼
1922-24	5	146	4	¼	146	4	¼
1925	5	100	4	¼	100	4	¼
1925	1	92	3	¼	92	3	¼
G. M. C.							
1922-24	K15-16-20	100	2⅜	5/16	94	2 1/16	5/16
1917-26	K-41-52	104	3½	¼	104	3½	¼
1917-26	K-71-72	121	3¾	¼	121	3¾	¼
1921-26	K-101-102	142	4	¼	142	4	¼
1925	K-17-32	86	2⅜	5/16	94	2½	5/16
1926	K-17-32	172	2½	5/16	94	2¼	5/16
1930	T-11	.....	1½	5/16	.....	1½	5/16
			1½	5/16			
1930	T-15, T-17	.....	1¾	5/16	.....	1½	5/16
			2	5/16			
1930	T-19	.....	2	5/16	.....	2	¼
			2	¼			
1930	T-25	.....	2	5/16	.....	3	¼
			2	¼			
1930	T-30	.....	2	¼	.....	3	¼
			2½	¼			
1930	T-42, T-44	.....	2	¼	.....	3	¼
			3	5/16			
1930	T-60	.....	2½	¼	.....	3	¼
			4	5/16			
1930	T-82	.....	2½	¼	.....	4	5/16
			5	5/16			
1930	T-90	.....	.....	.....	.....	4	5/16
			4	5/16			
Gotfredson							
1924-26	20-1	85	3¼	5/16	22	2	5/16
1924-26	30-41, 1½-2	47	3¼	5/16	.....	.....	.....
1926	30B-1½	168	2¼	5/16	168	2¼	5/16
1925	60-3	231½	5	5/16	56	3¼	¼
1925-26	80-4	231½	7	5/16	62	3¾	¼
1924-26	100-5	251½	7	5/16	73	4	¼
1926	51-2½	106	3½	¼	106	3½	¼
Graham Brothers							
1923-24	All	100	2½	5/16	80	2½	5/16
1925-26	BB-1	87	2	5/16	87	2	5/16
1925-26	CB, FD, JB, LB, YB	87	2¼	5/16	87	2¼	5/16
Gramm-Bernstein							
1920-22	20-2-2½	90	2	¼	90	2	¼
1920-21	25-30-2½	182	2¼	¼	182	2¼	¼
1921	35-3½	115	2¾	¼	115	2¾	¼
1922-25	10, Speed	98	2	5/16	52	2	5/16
1922-25	15-1½-2	97	2	5/16	94	1½	5/16
1922-25	65-1½-2	171½	5	¼	39½	1¾	5/16
1922-25	30-3	171½	5	¼	91	2¼	¼
1922-25	40-4	115	2¾	¼	115	2¾	¼
1920-25	50-5-6	132	2¾	¼	132	2¾	¼
1923-25	125-2-2½	16	5	¼	90	2	5/16
1925	75P-3½	91	2¼	¼	91	2¼	¼
Grass-Premier							
1925	40A	22½	1¼	5/16	96	2½	5/16
1925	60A-1½	97	2	5/16	94	1½	5/16
1925	90A-3½	50 5/8	3¾	¼	63	3¾	¼
G. W. W.							
1922-24	A11	98	2½	¼	94	1½	1/32
Hahn							
1921-24	CD, EE, KS, L	112	3½	¼	112	3½	¼
1921-25	FN M M2	128	3¾	¼	128	3¾	¼
1921-25	FE, N, R	72	4	¼	72	4	¼
1922-23	B2	68	1¾	5/16	68	1¾	5/16
1922	O	72	2	5/16	72	2	5/16
1922	K	96	3¼	¼	96	3¼	¼
1924	B2	88	2½	¼	88	2½	¼
1924	O, K	96	3¼	¼	96	3¼	¼
1925	B2	36	2¼	5/16	36	2¼	5/16
1925	O	80	2¾	¼	56	2¾	¼
1925	L	106	3½	¼	106	3½	¼
1926	O-1½	80	2½	5/16	56	2½	5/16
1926	K-2	94	3¼	¼	94	3¼	¼
1926	K-2½	106	3½	¼	106	3½	¼
1926	L-M, 3-5	125	3¾	¼	125	3¾	¼
1928	26	40	2¼	5/16	40	2¼	5/16
1928	36	45	2¼	5/16	45	2¼	5/16
1928	56	34	4½	¼	16	2½	¼
1928	76	32	3¾	¼	32	3¾	¼

Digitized by Google

BRAKE LINING SIZES—Commercial Vehicles—Continued

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL		SERVICE			EMERGENCY		
		Total Length	Width	Thickness	Total Length	Width	Thickness
Harvey							
1917-21	WKA-5	138	3	5/16	138	3	5/16
1917-23	WHA	112	2½	¼	112	2½	¼
1917-21	WSA-2½	104	2¼	½	104	2¼	¼
1919-21	WEA, 1½-2	92	2	¼	92	2	¼
1922-25	WFB-2, WFT	100	2¼	¼	100	2¼	¼
1922-25	WOA-2	180	2	¼	180	2	¼
1924-25	WHB, WHT	42	4	¼	42	3	¼
1925-26	WTT	52	3½	¼	52	3½	¼
1925-27	WFC	52	3½	¼	52	3½	¼
1926-29	WG	62	4	½	62	4	¼
1927-29	WTT	62	4	¼	62	4	¼
Hendrickson							
1919-23	I-2½	96	3½	5/16	96	3½	5/16
1919-23	J-3½	128	3¾	5/16	128	3¾	5/16
1919-23	K-5	144	4	5/16	144	4	5/16
1929	ST 2½	131/2	3½	¼	131/2	3½	¼
1929	T3, U4	151/2	3¾	¼	151/2	3¾	¼
1929	V5	18	4	¼	18	4	¼
1929	SSW-6	48	3	¼	361/2	3½	¼
1929	SW-10	581/2	4½	¼	361/2	3½	¼
1930	U-6	151/2	3¾	¼	361/2	3½	¼
1930	MSW	18	4	¼	361/2	3½	¼
1930	SW	581/2	4½	½	361/2	3½	¼
1930	SW-6	581/2	4½	¼	361/2	3½	¼
Huffman							
1919-22	C-1½-2	92	2½	5/32	88	2¼	1/8
1921-22	B-1½-2	76	2¼	5/16	76	1½	5/16
1926	EH, Speed	68	2½	5/16	68	1¼	5/16
1926	BH	78	2¼	5/16	78	1½	5/16
Hug							
1922	C-T	97	2½	5/16	80	1½	5/16
1923-24-25	T-TA	97	2½	5/16	80	1½	5/16
1923	C-H-HA	94	2½	5/16	66	2½	5/16
1924	HA-C	94	2½	5/16	66	2½	5/16
1924	H4	94	2½	5/16	66	2½	5/16
1925	H4-HA						
	H4K-HA2	94	2½	5/16	66	2½	5/16
1926	H4-H4K-HA2-HA4-TA	94	2½	5/16	66	2½	5/16
1926-27	HD6-90	53	4	¼	391/2	2½	5/16
1927	HA4	94	2½	5/16	66	2½	5/16
1926-27	HD6-90	53	4	¼	391/2	2½	5/16
1927	HA4	94	2½	5/16	66	2½	5/16
1927	H4K-80-88	52½	4	¼	39	2½	5/16
1927-28	25-60	50	3	5/16	351/2	2½	5/16
1927	30-40	47	2½	5/16	47	2½	5/16
1927	20	44	2¼	5/16	44	2¼	5/16
1928	21	44	2¼	5/16	44	2¼	5/16
1928-29	40	47	2½	5/16	47	2½	5/16
1928	66	50	3	5/16	351/2	2½	5/16
1928	81-84-86-90 486-846-40A	52½	4	¼	39	2½	5/16
1928-29	22-41	16	2¼ Brake	5/16 Lining	Tru	Stop No.	C4
1929	60-66-26	50	3	5/16	35½	2½	5/16
1929	81-84-86-87 C87-486-90-96-C96-846-40A	52½	4	¼	39	3½	5/16
1930	97-C97-98	.....	3	5/16	Tru	Stop	....
			5	½			
Hurlburt							
1919-22	1½	88	2	¼	88	2	¼
1919-22	2½	48	2½	¼	46	2½	¼
1919-22	3½-4	52	3	¼	50	3	¼
1919-22	5-5½	56	3	¼	54	3	¼
1923-25	1½	92	3½	¼	92	3½	¼
1923-25	B-2½	96	3½	¼	96	3½	¼
1923	3½	94	4	¼	94	4	¼
1923-25	D-5	144	4	¼	144	4	¼
Indiana							
1920-26	12-15-1½	152	2	5/16	152	2	5/16
1920-26	20-25-26	180	2¼	¼	180	2¼	¼
1920-25	35-3½	83	4	¼	83	3	¼
1920-25	51-5	261	3	5/16	261	3	5/16
1926	41-4	83	3	¼	83	3	¼
1926	52	138	4	¼	138	3	¼
1927	11-11X	83½	2	5/16	83½	2	5/16
1927	111X-111A 111-6111	83½	2¼	5/16	83½	2¼	5/16
1927	628-115A, 127-627	93	2½	5/16	93	2½	5/16
1927	115-615	48	3¼	¼	48	3¼	¼
1927	126-626	64	3¾	¼	64	3¾	¼
1927	41	145	4	¼	391/2	4½	¼
1928	200-300	68	1¾	5/16	.....	.....	.....
		761/2	2¼	¼			
1928	111X	169	2¼	5/16	.....	.....	.....
1928	400 Shuler	90	2	¼	.....	.....	.....
1928	400 Clark	90	2½	¼	.....	.....	.....
1928	400 Tim.	92½	3	¼	.....	.....	.....
1928	115A-615A 127-127A	185	2½	5/16	.....	.....	.....
1928	627-627A 628	185	2½	5/16	.....	.....	.....
1928	126-626	121	3¾	¼	.....	.....	.....
		961/2	5	¼	343/4	3½	¼
1928	138-638	911/2	3¾	¼	.....	.....	.....
	138-638	1233/4	3¾	¼	391/2	4½	¼

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL		SERVICE			EMERGENCY		
		Total Length	Width	Thickness	Total Length	Width	Thickness
1928	41-641	142	4	¼	39½	4½	¼
1928	SG	76½	2¼	¼	.....	.....	....
		98	3	¼			
International (Harvester) Truck							
1917-23	1½	175	2¼	5/16	89	2¼	5/16
1918-23	2-3	101	2¼	5/16	101	2¼	5/16
1919-23	5	147	2½	5/16	147	2½	5/16
1924-26	5	43	2¼	¼	148	4	5/16
1921-25	¾-1-1½	76	2	5/32	72	2	5/32
1926-27	1-1½	89	2¼	5/16	89	2¼	5/16
1924-26	2-3	43	2¼	¼	101	3	5/16
1928	Spec. Del.	72	2	5/32	22	2	5/32
1928	1¼-1½	78	2¼	5/16	78	2¼	5/16
1928	SD-SF44	85⅝	3	¼	85⅝	2	5/16
1928	SD-F46	85⅝	3	¼	85⅝	2	¼
1929	¾	641/8	1¾	5/16	36	2	5/32
		36	2	5/32			
1929	1	641/8	1¾	5/16	36	2¼	5/32
		36	2¼	5/32			
1929	¼, ½, 2	160⅛	2¼	5/16	781/2	2¼	5/16
1929	SD-44, SD-46	166⅛	2¼	5/16	841/2	2¼	¼
1929	2½	65⅝	3¾	¼	65⅝	3¾	¼
		66	5	¼	66	5	¼
1929		65⅝	3¾	¼	65⅝	3¾	¼
		92⅜	4½	¼	92⅜	4½	¼
1929	3½	65⅝	3¾	¼	65⅝	3¾	¼
		111	5	¼	111	5	¼
1929	3½, 5	65⅝	3¾	¼	65⅝	3¾	¼
		97⅛	4½	¼	97⅛	4½	¼
International (Harvester) Bus							
1922-24	52-53	43	2¼	¼	101	3	5/16
1925	54L	97	2½	5/16	81	2½	5/16
		102	2	5/16			
1926	54M	96	3	¼	68	2½	¼
1926	54H, H	118	4	¼	78	3	5/16
1926	54L	84	2¼	¼	84	2¼	¼
1928	54 D.R.	86	5	¼	211/2	5	¼
1928	54 Chain	92⅝	4½	¼	211/2	5	¼
1928	74 D.R.	111	5	¼	211/2	5	¼
1928	74-C	97⅞	4½	¼	211/2	5	¼
Jumbo							
1919-24	1½-2	97	2	5/16	94	1½	5/16
1919-24	2½-3	100	3	5/16	95	2½	5/16
1919-24	3½-4	121	3	5/16	117	2½	5/16
Kalamazoo							
1919-23	G	100	2½	5/16	68	2½	5/16
1922-23	NH	104	2¼	¼	104	2¼	¼
1922-23	S-K	114	2½	¼	114	2½	¼
1922-23	O-K	136	3	¼	136	3	¼
Kearns							
1919-23	N-1½	90	2½	5/32	88	2¼	5/32
1924	N-1-2	84	2¼	¼	84	2¼	¼
1923-24	H-1¾	42	2	5/32	42	2	5/32
1924	T-3½	88	4	¼	88	3	¼
1924	TF-5	129	3	¼	129	3	¼
Kelland Electric							
1921-24	.....	96	2½	5/16	96	2¼	5/16
Kelly Springfield							
1917-24	K-32-33-36-380	139	1⅞	5/16	139	1⅞	5/16
1918-22	K-32-34	85	2	¼	85	2	¼
1918-22	K-36	99	2¼	¼	99	2¼	¼
1918-22	K-40	84	2⅞	5/16	84	2⅞	5/16
1920-22	K-41	381/2	4½	¼	123	3	5/16
1923-26	K-39, K-75	381/2	4½	¼	85	2½	5/16
1923-24	K-41, K-61	381/2	4½	¼	102	2½	5/16
1920-25	K-42	110	2¾	¼	110	2¾	¼
1924-25	K-76, K-70	70	2⅜	5/16	70	1⅞	5/16
1925-26	K-41, K-61	381/2	4½	¼	116	2½	5/16
1925-26	K-100	93	3	5/16	93	2½	5/16
Kenworth							
1923-24	M1½, KS 2½	80	2¼	¼	80	2¼	¼
1923	SK-2½	92	2	¼	92	2	¼
1923-24	L-3	112	2½	¼	112	2½	¼
1925-26	O-1	72	2	5/16	72	2	5/16
1925-26	M2, KS3	89	2¼	¼	89	2¼	¼
1925-26	L4	93	4	¼	93	3	¼
1925-26	RS5	139	3	¼	139	3	¼
Kimball							
1922	AB-2	90	2	¼	90	2	¼
1922	2½-3	90	2¼	¼	90	2¼	¼
1922	AF-4	112	2½	¼	112	2½	¼
1922	AF-5	138	3	¼	138	3	¼
1924	AB-2	80	3¼	¼	80	3¼	¼
1924	AC-2½	112	3½	¼	112	3½	¼
1924	4	132	3¾	¼	132	3¾	¼
1924	AF, S	148	4	¼	148	4	¼
King Zeitler							
1920-24	1	88	3	¼	88	3	¼
1920-24	¾	88	2½	¼	88	2½	¼
1924	5	156	4	¼	156	4	¼
1924-26	1½	49	3½	¼	49	3½	¼
1924-26	2½	53	3½	¼	53	3½	¼
1924-26	3½	64	3¾	¼	64	3¾	¼

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL		SERVICE			EMERGENCY		
		Total Length	Width	Thickness	Total Length	Width	Thickness
1924-26	5	72	4	¼	72	4	¼
1927	42A	84	3¼	5/16	84	3¼	5/16
1927	62A	64	3¾	¼	64	3¾	¼
Kissel							
1919-25	4	112	2½	5/16	112	2½	5/16
1919-23	Gen	76	2	5/16	76	2	5/16
1921-22	1	88	3	¼	88	3	¼
1919-25	2	112	3½	¼	112	3½	¼
1924-25	1	88	3	¼	96	3½	¼
1924-25	½	76	2	5/16	72	3¼	¼
Kleiber							
1922-24	1½	96	3¼	¼	96	3½	¼
1922-26	2-2½	108	3½	¼	108	3¼	¼
1920-26	3½	128	3¾	¼	128	3¾	¼
1920-26	5	144	4	¼	144	4	¼
1925-26	1½	104	3¼	¼	104	3¼	¼
Krebs							
1922-25	J	90	2½	¼	90	2½	¼
1922-25	50-80-75	108	3½	¼	108	3½	¼
1924-25	K-L-45	96	3¼	¼	96	3¼	¼
1922-25	B-L	144	3¾	¼	144	3¾	¼
Lange							
1922	B-2½	60	2	¼	72	3	¼
1922-27	E	54	3½	¼	54	3½	¼
1923-27	F	63	3¾	¼	63	3¾	¼
1925-27	G	48	3¼	¼	48	3¼	¼
1925-27	H	63	3¾	¼	63	3¾	¼
1926-27	K	78	2½	5/16	78	3¾	5/16
1929	T	72	4	¼	.....	.....	...
1928-30	L	50	5	¼	.....	.....	....
1928-30	M	99½	4½	¼	.....	.....	....
1928-30	O	50	5	¼	.....	.....	....
1928-30	R	17	2¼	5/16	.....	.....	....
Lansden Electric							
1922-26	M-1	72	2½	¼	72	2½	¼
1922-26	M-2	88	3	¼	88	3	¼
1922-26	M-3½	94	3	¼	94	3	¼
1922-26	M-5	104	3½	¼	104	3½	¼
Larrabee Deyo							
1919-23	U-X2, 1-1½	96	2	¼	96	2	¼
1922-23	J4-1½	96	2	¼	96	2	¼
1922-23	K4-2½	108	2¼	¼	108	2¼	¼
1919-23	L4-3½	120	2½	¼	120	2½	¼
1918-23	5-7	144	3	¼	144	3	¼
1924-25	X2-1-1¼	100	2	5/16	100	2	5/16
1924-25	J4-1½-2½	76	2	5/16	76	2	5/16
1924-25	K5-2½-3½	84	2¼	¼	84	2¼	¼
1924-26	L4-6, 3½-4½	84	4	¼	84	3	¼
1926	1¼-1½	82	2¼	5/16	82	2¼	5/16
1926	1½-2¼, XH	78	2	5/16	78	2	5/16
1926	K5-2½-3½	98	2¼	¼	98	2¼	¼
Le Moon							
1925	GP-1	92	2½	5/16	92	2½	5/16
1925	GP-1½	92	3	5/16	92	3	5/16
1925	GP-2	96	3¼	¼	96	3¼	¼
1925	G-3	108	3½	¼	108	3½	¼
1925	G-4	132	3¾	¼	132	3¾	¼
1925	G-5	144	4	¼	144	4	¼
1930	HB10	26	1¼	5/16	24	2	5/16
		31	2¼	5/16			
1930	HB17	62	2¼	5/16	24	2	5/16
	HB21	31	2¼	5/16	24	2½	5/16
		31	3¼	¼			
1930	HB26	31	2¼	5/16	24	2½	5/16
		32	4	¼			
1930	HB30	31	2¼	5/16	36	3½	¼
		32	5	5/16			
1930	HB46	31	2¼	5/16	.....	.....	.....
		31	3½	¼			
1930	HB60	37	4	5/16	.....	.....	.....
1930	HB100	37	4	5/16	.....	.....	.....
Luedinghaus							
1920-23	K2-LS2	107	2½	¼	77	2½	¼
1924	1-2½	96	2½	5/16	66	2½	5/16
1924	D-3½	114	2½	5/16	86	2½	5/16
Maccar							
1920-26	Series G	144	4	¼	144	4	¼
1917-25	Series L&V	93	3¼	¼	93	3¼	¼
1917-25	Series H	106	3½	¼	106	3½	¼
1917-26	Series M	118	3¾	¼	118	3¼	¼
1917-23	Series S	87	2	5/16	87	2	5/16
1924-26	EX	100	2	5/16	96	2	5/16
1926	46	100	2½	5/16	71	2½	5/16
Mack							
1921-22	AB-1½-2-5-Tr	24½	4	¼	66	2½	¼
1923-25	AB Ch-Tr AB-1½-2-	23¼	4	¼	66	2½	¼
1924-26	2½ (Chain)	23¼	4	¼	66	2½	¼
1924-25	AB-Tr. 5	23¼	4	¼	66	2½	¼
1922	AC-Tr.	75	2½	¼	75	2½	¼
1922-25	AC-Tr.-7-10	32¼	3	¼	84	3½	¼
1924-26	AC-3½ to 7½	32¼	3	¼	84	3½	¼
1924-25	AC-13-15	32¼	3	¼	84	3½	¼

Digitized by Google

BRAKE LINING SIZES—Commercial Vehicles—Continued

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL	SERVICE			EMERGENCY		
	Total Length	Width	Thickness	Total Length	Width	Thickness
Mack—Cont.						
1924-25 AB-1½-2-2½ (Dual-R'dn)	73	3½	¼	24	6	¼
1925-26 AB-Bus	24	6	¼	73	3½	¼
Mason Road King						
1923-26 1½-A, B	85	2¾	5/16	82	2¾	5/16
Master						
1919-26 1½	96	3¼	¼	96	3¼	¼
1920-22 2½-6	171¼	4½	5/16	107	3	5/16
1919-22 2½-5	106	3½	¼	106	3½	¼
1922-23 3½	128	3¾	¼	128	3¾	¼
1923-25 61-64, 5-6	106	4	¼	108	4	¼
1923 11, 21, 31	94	2½	¼	94	2¼	¼
1923 41-51	94	2½	¼	94	2¼	¼
1925-26 41-2½	106	3½	¼	106	3½	¼
1925-26 51-3½	128	3¾	¼	128	3¾	¼
1925-26 11	84	2½	¼	84	2½	¼
Maxwell						
1922-25 1½	69	1½	5/16	24½	2	5/16
Menominee						
1919-23 D-H, 1-1½-2	106	3½	¼	84½	2½	5/32
1922-24 HT-1¼	95	2½	5/16	67	2½	5/16
1922-24 J-3-5	138	3½	5/16	104	2½	5/16
1922-24 G-3½	125	3¾	¼	125	3¾	¼
1924-25 1-Hurryton	96	2½	5/16	88	2½	5/16
1924-25 D-2	108	3½	5/16	67	2½	5/16
1925 H-HT	95	2½	5/16	67	2½	5/16
1926 J3	144	4	¼	144	4	¼
1926 Hurryton	98	2½	5/16	94	2¼	5/16
1927 Hurryton	108	2½	5/16	92	2¼	5/16
1927 T Bus	102	4	¼	86	3½	¼
Moreland						
1917-25 BX-EX, 1½-2	96	3¼	¼	96	3¼	¼
1919-25 AX-3, EC	108	3½	¼	108	3½	¼
1923-25 RX-5, AC	124	3¾	¼	124	3¾	¼
1922-25 RR-1	98	2½	¼	92	2½	¼
1926-27 RR	84	2¼	5/16	84	2¼	5/16
1926 EX-AX	106	3½	¼	38½	4	¼
1927 BX	48	3¼	¼	48	3¼	¼
1927 EXX	54	3½	¼	54	3½	¼
1927 AXX	105½	5	¼	38¼	4	¼
1927 SX	211	3½	¼	48	3½	5/16
1927 TX	251	5	¼	48	3½	5/16
1930 Ace	.....	..	....	11	2	5/16
1930 RR7, RC7 B-7, BD7	.....	.....	.....	11½	2½	5/16
1930 E-7, EX7 ED7, HD7	.....	.....	.....	38¼	4	¼
1930 H-7	.....	.....	.....	38¼	4½	¼
1930 SD7, TD7	.....	.....	.....	12	3½	5/16
Nash						
1917-26 4017Qd	99	2½	¼	25½	2½	¼
1919-26 3018	120	3	5/16	20½	2½	5/16
1918-26 2017-18	99	2	5/16	20½	2½	5/16
National						
1924-27 M	96	3¼	¼	96	3¼	¼
1924-27 T	108	3½	¼	108	3½	¼
Nelson & Le Moon						
1922-26 G2-GP, 1½	96	3¼	¼	96	3¼	¼
1922-26 2½-3	55	3½	¼	55	3½	¼
1922-26 3½-4	62	3¾	¼	62	3¾	¼
1922-26 5	72	4	5/16	72	4	5/16
Noble						
1922-25 A-1¼-1½	76	2	¼	76	2	¼
1920-24 B-1½-2	172	2	¼	172	2	¼
1922-25 D-2½-3	84	2¼	¼	84	2¼	¼
1920-26 E-3½-4	114	2½	¼	114	2½	¼
1924-25 A-76-1½	94	2½	¼	90	2½	¼
1926 A-1	80	2¼	5/16	80	2¼	5/16
1926 A-1½	144	2	5/16	144	2	5/16
1926 D-2	171	2	¼	171	2	¼
1926 D-2½-3	196	2¼	¼	196	2¼	¼
Northway						
1916-25 B-3-3½	108	2½	¼	108	2½	¼
1916-25 B-2	101	2¼	¼	101	2¼	¼
Ogden						
1922-25 A-2	88	2½	¼	88	2½	¼
1922-25 D-1½	88	3	¼	88	3	¼
1922-25 E-2½	104	2¼	¼	104	2¼	¼
1922-25 F-3½	125	3¾	¼	83	3¾	¼
1922-25 G-5	.....	6	¼	100	4	¼
Old Reliable						
1919-24 KLM-7½	108	3½	¼	60	4	¼
1919-22 A	96	2½	¼	96	2½	¼
1920-23 B-2½	164	2	¼	164	2	¼
1920-23 C-3½	86	3	¼	86	2	¼
1920-24 D	144	3	¼	144	3	¼
1920-25 K-7½	80	5	¼	94	3½	¼
1924-25 B-2½	108	2	¼	108	2	¼
1924-25 C-3½	120	2¼	¼	120	2½	¼
Oldsmobile						
1919-23 T	84½	2	5/32	82¼	2	5/32
Olympic						
1920-23 A-2½, J	106	3½	¼	106	3½	¼
Oneida						
1920-26 A-B-9, ¾	96	2½	5/16	68	2½	5/16
1920-26 C-9, 2½	116	2½	5/16	86	2½	5/16
1920-26 D-9, 3½	128	3¾	5/16	86	2½	5/16
1920-26 E-9, 5	144	4	5/16	144	4	5/16
1927-30 SFF15	94	3	¼	.....	.....	.....
1927-30 SFF10	94	3	¼	65	2½	5/16
1927-30 B9	94	3	¼	65	2½	5/16
1927-30 C9	97	5	¼	65	2½	5/16
1927-30 D9	104	4	¼	74	2½	5/16
Oshkosh						
1922-26 AW, AAW, A, AA	23⅝	3½	¼	87	2½	5/16
1922-26 B, BB, BO, BBO	24	4½	3/8	87	2½	5/16
1925-26 F	30	4½	3/8	82	4	¼
1925-26 H	30	4½	3/8	71	3½	¼
1925-26 M	66	2½	5/16	94	2½	5/16
1928 K	24	4½	3/8	71	2½	¼
1928 F	30	4½	3/8	82	4	¼
1928 H	30	4½	3/8	68	3½	¼
1928 M	94⅝	3	5/16	66½	2½	5/16
1928 R	94	3	¼	65	2½	5/16
Overland						
1924-26 ½	63	1½	5/32	54½	1¼	5/32
Packard						
1920-23 EC-EX	15½	4¾	¼	56	2	5/16
1917-23 ED	19⅛	4¾	¼	68	3	5/16
1917-23 EF-E 4-6	19⅛	6½	¼	75	3½	5/16
Parker						
1919-24 J-20-24	21½	5	¼	76	3½	¼
1920-24 M-20	21½	5	¼	98	4	¼
1922 G-22	42	3	¼	42	3	¼
1920-24 G-1, F-20	21½	5	¼	76	2½	¼
1923-24 B-23	82	2¾	5/16	84	2¾	5/16
1923 E-23	47	3¼	¼	47	3¼	¼
1924 E-24, F-24	94	2½	5/16	66	2½	5/16
Patriot						
1919-24 Lin-Rev	82	1¾	5/16	82	1¾	5/16
1922-25 Wash	116	2½	5/16	86	2½	5/16
1924-25 7R-9L, 1-2	91	1¾	5/16	91	1¾	5/16
Penn						
1925-26 1	80	1½	5/32	80	1½	5/32
1925-26 2	101	3	5/16	94	2	5/16
Perfection						
1924 A-B	42	2½	¼	42	2½	¼
1924 C-D	40	2½	¼	40	2	¼
1924 E-EA	48	3¼	¼	48	2¼	¼
Pierce-Arrow						
1921-27 5-6-7½	19⅝	6	¼	83⅜	4¾	7/32
1921-24 2-3	180½	2¼	¼	180½	2¼	¼
1921-27 3½-4	19⅝	6	¼	72	4¾	7/32
1924-25 XA-XB-TT	121	3¾	¼	121	3¾	¼
1925-26 Z Bus	54¾	5	¼	103	5	¼
1928 XA-XB	26⅞	5	¼	103	5	¼
1928 WC	19⅝	6	¼	72	4¾	7/32
1928 RD-RF	19⅝	6	¼	83⅜	4¾	7/32
1928 Z Bus	53¾	5	¼	103	5	¼
1928 FA	125	2¼	5/16	24⅜	3	¼
		2¾	5/16	.....	....	
Pittsburgher						
1921-23 2½	104	2¼	¼	104	2¼	¼
1922-24 C&D	104	2	¼	104	2	¼
1924 A	96	2	¼	96	2	¼
Pontiac						
1927	67⅞	2	5/32	56	1¼	5/32
Power						
1923-24 F-2½	106	2	¼	106	2	¼
1923-24 C-3½	119	2¼	¼	90	2¼	¼
Rainier						
1919-22 R8-9-2	89	2	¼	89	2	¼
1922 R6-19, 1-½	76	2	¼	76	2	¼
1922 R11-¾	90	3	5/16	90	3	5/16
1923-25 R29-31, ¾-1	88	2½	¼	88	2½	¼
1923-25 R36-1½	94	3¼	¼	88	3¼	¼
1923-25 R28-2	160	2¼	¼	160	2¼	¼
1923-25 R20-2½	104	3½	¼	104	3½	¼
1923-25 R25-3½	124	3¾	¼	124	3¾	¼
1923-25 R27-6	144	4	¼	144	4	¼
Rehberger						
1924-26 B-3, B2 Bus	106	3½	¼	106	3½	¼
1924-26 C-4	125	3¾	¼	125	3¾	¼
1924-26 D-5	144	4	¼	144	4	¼
1926 A-2	91	3¼	¼	91	3¼	¼
1927-30 B-4	124	3¾	¼	124	3¾	¼
Relay						
1928-29 30A	60½ 79½	2¼ 3	5/16 ¼	24⅜	4	¼
1928-29 40A	60½ 79½	2¼ 3	5/16 ¼	24⅜	4	¼
1928-29 50C	60½ 77	2¼ 4	5/16 ¼	60	3	¼
1928-29 60C	60½ 77	2¼ 4	5/16 ¼	60	3	¼
1928-29 70C	192	4	¼	17½	6½	¼
1928-29 80C	192	4	¼	17½	6½	¼
1929 S11B, 20B	60½ 62½	2¼ 2½	¼ 5/16	24⅜	4	¼
Reliance						
1920-25 A-B, 1½-2½	136	2	5/16	136	2	5/16
Reo						
1919-23 F	86	2¼	5/16	83	2	5/16
1923-26 F	93	3	5/16	81	3	5/16
Republic						
1922-23 10,-E, 1	85	2½	5/32	79	2¼	5/32
1920-23 20-3½	112	3½	5/32	31	4½	5/32
1922-23 ¾	76	2	5/32	72	2	5/32
1922-23 1½-2½	101	2½	5/16	97	2¼	5/16
Reynolds						
1919-23 3A-1½	92	2	¼	92	2	¼
1919-23 5A-2½	105	2¼	¼	105	2¼	¼
1919-23 7A-3½	114	2½	¼	114	2½	¼
1919-23 10A-5	140	3	¼	140	3	¼
Rowe						
1919-23 FW-5	136	3	5/16	136	3	5/16
1924-26 FW-5	136	3	¼	136	3	¼
1919-23 CW-1½	72	2	5/16	72	2	5/16
1919-22 CDW-2	90	2	¼	90	2	¼
1919-22 CDW-2½-3	103	2½	¼	103	2½	¼
1919-22 HW-4	113	2½	¼	113	2½	¼
1924-25 CDW-2½	80	2¼	¼	80	2¼	¼
1924-25 GSW-3	80	2¼	¼	80	2¼	¼
1924-25 HW-4	88	4	¼	88	3	¼
Rugby						
1928 Fast Mail	118½	1½	5/32	118½	1½	5/32
1928 Express	166½	2	5/16	166½	2	5/16
Ruggles						
1924-25 15-16, ¾-1	88	2	5/32	78	1¾	5/32
1924-26 1¼-1½	96	2½	5/32	94	2¼	5/32
1924-26 2	95	2½	5/16	67	2½	5/16
1924-26 2½	116	2½	5/16	88	2½	5/16
Safeway						
1924-25 37C	96	3½	¼	88	2	¼
1924-25 55, 63-66	96	3½	¼	88	2	¼
1926 55,63-66	99	5	5/16	99	5	5/16
1927 55, 64, 92	99	5	5/16	99	5	5/16
1927 66	99	5	¾	99	5	¾
1928 92	104	5	⅜	104	5	⅜
Sandow						
1919-23 G, CG	80	2	5/16	80	2	5/16
1919-23 J	108	3½	¼	108	3½	¼
1919-23 L	96	4½	¼	96	4½	¼
1919-23 M	74	4	¼	74	4	¼
1924-25 G-CG, 1-1½	89	2¼	¼	89	2¼	¼
1924-25 J-2½	94	3½	¼	94	3½	¼
1924-26 M-L, 3½-5	108	4	¼	94	3½	¼
1925-26 GA	88	2½	5/16	88	2½	5/16
1925-26 JS	90	2½	¼	90	2½	¼
Sanford						
1923-24 25-2½	83	2¼	¼	83	2¼	¼
1925-26 W4-2½	89	2¼	¼	89	2¼	¼
1924-25 W4-2½	112	4	¼	112	2½	¼
1926 W4-2½	84	4	¼	84	3	¼
1923-25 W-1½	89	2¼	¼	89	2¼	¼
1926 W-15-1½	78	2	5/16	78	2	5/16
1925-26 1¼	89	2¼	5/16	89	2¼	5/16
1925-26 W6-2½	78	2	5/16	78	2	5/16
1923-26 W4-5	136	3	¼	136	3	¼
Schacht						
1922-25 F2-3, G2-3	33	3	¼	52	3	¼
1922-25 E4-5, G4-5	33	3	¼	60	4	5/16
1924-25 H-1½, J-2	66	2½	5/16	96	2½	5/16
1925 Bus (Front Wh.)	122 63	4 2½	5/16 5/16	26½	4	¼
1926-27 H-1½, J-2	106	4	5/16	79	2½	5/16
1926 2½-3½, L-M	33	3	¼	54	3	¼
1926 M-5-7	33	3	¼	60	4	5/16
1926 Bus (Front Wh.)	118 100	4½ 3	5/16 ¼	26½	4	¼
1927 LO, LN MP, N	45	3	¼	98	5	5/16
1928 H-HS	106	4	5/16	79	2½	5/16
1928 T	104	4	¼	77½	2½	5/16
1928 N, R	45	3	¼	98	5	5/16

Digitized by Google

BRAKE LINING SIZES—Commercial Vehicles—Continued

COMMERCIAL VEHICLE MAKE, YEAR AND MODEL		SERVICE			EMERGENCY		
		Total Length	Width	Thickness	Total Length	Width	Thickness
Schwartz							
1922	A-1	80	1¾	5/16	80	1¾	5/16
1922	K-2	81	2¼	¼	81	2¼	¼
1922	L-3	103	2¼	¼	103	2¼	¼
1922	M-4	139	3	¼	139	3	¼
1923-24	20	87	2½	¼	87	2½	¼
1923	45	94	3¼	¼	94	3¼	¼
1923	65	106	3½	¼	106	3½	¼
1923	90	125	3¾	¼	125	3¾	¼
1923	120	144	4	¼	144	4	¼
Selden							
1922-26	30-33	91	3¼	¼	91	3¼	¼
1922-26	50-53, 3	104	3½	¼	104	3½	¼
1922-23	31-51	104	3½	¼	104	3½	¼
1922-26	70-70B, 73	125	3¾	¼	125	3¾	¼
1923-25	52	125	3¾	¼	125	3¾	¼
1923-25	53	104	3½	¼	104	3½	¼
1926	Pacem.	83	2¼	5/16	83	2¼	5/16
1926	Roadm.	89	2½	5/16	89	2½	5/16
1922-26	90-90B	144	4	¼	144	4	¼
Service							
1919-26	230-40, 31-61	108	3½	¼	108	3½	¼
1919-26	71-275-81	124	3¾	¼	124	3¾	¼
1919-26	101-3, 300	144	4	¼	144	4	¼
1921-23	12	88	2½	¼	88	2½	¼
1919-26	21-42-34	94	3¼	¼	94	3¼	¼
1923-24	33	88	3	¼	88	3	¼
1921-24	15-25	80	1¾	5/16	80	1¾	5/16
1925-26	25	160	2	5/16	160	2	5/16
1928	20-Z, 25-Z	121	2¼	5/16	24⅜	4	¼
1928-29	S11-Z	121	2¼	5/16	24⅜	4	¼
1928-29	30-Z	60½	2¼	5/16	24⅜	4	¼
		57⅝	3½	¼			
1928-29	40Z	60½	2¼	5/16	24⅜	4	¼
		57⅝	3½	¼			
1928-29	50-Z, 60-	60½	2¼	5/16	60	3	¼
		99	5	5/16			
1928-29	70-Z, 80 Z	121	3¾	¼	39½	4½	¼
1929	20-Y,S -11-Y	121	2¼	¼	22⅞	2	5/16
Signal							
1922-24	NF-1	90	3	¼	90	3	¼
1919-24	H-1½	94	3¼	¼	94	3¼	¼
1919-24	J-2½	105	3½	¼	105	3½	¼
1919-24	M-3½	125	3¾	¼	125	3¾	¼
1919-24	R-5	144	4	¼	144	4	¼
Standard							
1919-26	66, K-3½	125	3¾	¼	125	3¾	¼
1919-26	86, K-5-7	144	4	¼	144	4	¼
1922-26	75-¾-1-1¼	94	2½	¼	94	2½	¼
1920-25	K-1½	87	3	¼	87	3	¼
1919-25	70K-2½	108	3½	¼	108	3½	¼
1925-26	K-1½	96	3¼	¼	96	3¼	¼
Star							
1924-25	.....	63	1½	5/32	57¼	1½	5/32
1926	½	58	2	5/32	62	1¾	5/32
Sterling							
1919-24	3½	126	3¾	¼	126	3¾	¼
1919-24	5-Worm	142	4	¼	142	4	¼
1919-24	5-7½ Ch.	113	3½	¼	113	3½	¼
1919-24	1½	94	3¼	¼	94	3¼	¼
1919-25	2-2½	107	3½	¼	107	3½	¼
1924-25	7½	113	3½	¼	90	4	¼
1925-26	GB-2-4-6	121	3¾	¼	121	3½	¼
1925-26	DW 8-10-12	89	3¼	¼	89	3¼	¼
1925-26	DW-23-25 27	142	4	¼	142	4	¼
1925-26	EW-20	121	3¾	¼	121	3¾	¼
1926	DW-12-14	107	3½	¼	107	3½	¼
1926	Series EC	118	4½	¼	29	4	¼
Stewart							
1918-25	M7-M7X	101	2	5/16	16	5	5/16
1918-25	M11-15	83	2	5/16	22¾	2	5/32
1918-25	9-1½-2	97	2	5/16	16	5	5/16
1919-25	10-10X	120	3	5/16	16	5	5/16
1925-26	16, 16X	84	3	5/16	22	4	¼
1925-26	17-17X, 18	84	3	5/16	22	4	¼
1925-26	10X	106	2½	5/16	16	5	5/16
1925-26	20, Bus	93	4	5/16	22	4	¼
1926	21, Bus	77	2	¼	24⅝	2	5/32
Stoughton							
1922-23	C-¾	113	2½	¼	110	2¼	⅛
1922-23	A-1	67	1¾	5/16	67	2	5/16
1919-23	B-1½	76	2	5/16	76	2	5/16
1922-23	D-F, 2-3	104	2¼	¼	104	2¼	¼
1926	C-1¼	88	2½	¼	96	2½	¼
1926	B Jr	88	2½	¼	96	2¼	5/32
1926	B	76	2	5/16	76	2	5/16
1926	D-F, 2-3	94	2¼	¼	94	2¼	¼
1927	K-2, C-1¼	88	2½	¼	96	2¼	5/32
Studebaker							
1926	N, A,	150	2½	5/16	24⅝	3	5/16
1926	D (Front Wh.)	60	3½	5/16	24⅝	3	5/16
1928	75 H. D	178½	3	¼	17	2½	¼
1928	75 Jr-76 Sp.	177¾	1½	¼	17	2½	¼
1928	Dic. Del	124¼	1	5/16	25	2	5/16
1929	99	178½	3	¼	21	2½	¼
1929	88, 77	177¾	2½	¼	21	2½	¼
1929	GK	155	2¼	5/16	24	2	5/16
1930	99, 111	167⅛	3	¼	.....	.....	.....
1930	77, 88	177¾	2½	¼	.....	.....	.....
1930	GN-N	154⅛	2¼	5/16	24⅝	2	5/16
1930	GN-S	154⅛	2¼	5/16	24⅛	2	5/16
1930	GN-P	129¾	1¾	5/16	129¾	1¾	5/16
1930	FJ-H	154⅛	2¼	5/16	24⅛	2	5/16
1930	FL-H	154⅛	2¼	5/16	154⅛	2¼	5/16
Super Truck							
1919-23	30-3½	96	2½	5/16	63	2½	5/16
1919-23	40-2	103	2½	5/16	76	2½	5/16
1920-26	50-2½	103	2¼	¼	103	2¼	¼
1920-26	70-3½	111	2½	¼	111	2½	¼
1920-26	100-5	136	3	¼	103	3	¼
1925-26	60-3	115	2½	5/16	85	2½	5/16
Traffic							
1922-23	Speedboy	99	2½	5/16	79	1¾	5/16
1924-25	Speedboy	93	2	5/16	81	2	5/16
1922-26	6000	106	3	5/16	94	2	5/16
1925	C-2	87	2½	5/16	76	1¾	5/16
1926	2½	91	3¼	¼	91	3¼	¼
1926	3½	104	3½	¼	104	3½	¼
Transport							
1919-24	20	97	2	5/16	93	1½	5/16
1922-24	15-1	96	2½	5/32	93	2¼	5/32
1922	35	22	3	5/16	93	1½	5/16
1920-23	36	20½	3⅛	5/16	93	1½	5/16
1924	36-2	20½	3½	5/16	93	1½	5/16
1921-24	75	24	3	5/16	116	2½	5/16
1924	61-2½	24	3	5/16	97	2½	5/16
Traylor							
1922-25	1½-2	100	2	¼	100	2	¼
1920-25	3-3½	113	2¼	¼	113	2¼	¼
1922-25	5-6	118	2½	¼	118	2½	¼
1926	B-1½	144	2	5/16	144	2	5/16
1926	D-3	160	2¼	¼	16	2¼	¼
1926	F-5	90	4	¼	90	3	¼
Twin City							
1924	BW-2½	113	3½	¼	113	3½	¼
1924-26	AW-3½	128	3¾	¼	128	3¾	¼
1925	BW-2½	104	3	5/16	100	2½	5/16
1926	BW-2½	106	3½	5/16	102	3	5/16
1926	DW-Bus	107	5	5/16	28	5	5/16
Union							
1922-25	FW-2½	26½	4½	¼	104	3	¼
1922-25	HW-4	26	4½	¼	48	4	¼
1921-25	H-4	114	3½	5/16	32	4½	5/16
U. S.							
1918-22	H-S	100	2½	¼	100	2½	¼
1922	NW-1½	78	2	5/16	78	2	5/16
1922-26	NW-R, 2-3	84	2¼	5/16	84	2¼	5/16
1922-25	N-1½	101	2½	5/16	93	1½	5/16
1920-26	T-5-6-7	124	3	¼	33	4	¼
1922-25	U-1¼	101	2½	5/16	80	1½	5/16
1923-26	S-3½-4-5	84	4	¼	84	3	¼
1926	U-¼	84	2¼	5/16	84	2¼	5/16
1927	N	101	2½	5/16	93	1½	5/16
1927	U	84	2¼	5/16	84	2¼	5/16
1927-28	20, 21	11½	3¼	¼	11½	3¼	¼
1927-28	30, 31	53	5	¼	36	3¾	5/16
1927	40	63	3¾	5/16	41	4½	5/16
1928	40	15¼	3¾	¼	15¼	3¾	¼
1928	U	41¾	2¼	5/16	41¾	2¼	5/16
1928	N, L	50½	2½	5/16	46¾	1½	5/16
United							
1920-23	1½	96	2	5/16	96	1½	5/16
1920-23	2-2½	98	2½	5/16	98	2½	5/16
1920-22	5	88½	2¼	5/16	88½	2¼	5/16
1920-23	3½-5	124	3	5/16	116	2½	5/16
1924-25	25-30	96	2½	5/32	94	2¼	5/32
Velie							
1920-24	46-1½	109	2½	5/32	105	2¼	5/32
1928	33	103	1¾	5/16	17½	2	5/32
1928	40	127	2	5/16	23	2	5/16
Victor							
1924	25-¾-1	90	2½	5/16	21	2½	5/16
1924-26	40-50-1½-2	96	2½	5/16	68	2½	5/16
1924-25	60-70-80	116	2½	5/16	89	2½	5/16
1925	25-1¼	44	2½	5/16	46	2½	5/16
1925	85-90, 5-6	142	2½	5/16	110	2½	5/16
1926	25-1¼	44	2½	5/16	112	2½	5/16
1926	60-70-80	115	2½	5/16	85	2½	5/16
1926	85-90, 5-6	148	3½	5/16	120	3½	5/16
Walker Electric							
1920-23	M-2	86	2¼	5/16	56	1¾	5/16
1922-26	L,P,N,42	107	3	¼	77	½	.....
1922-26	K,15,22	91	2½	5/16	64	2	5/16
1924-25	12	88	2½	¼	88	2½	¼
Walker-Johnson							
1922-23	A-2	96	3¼	¼	96	3¼	¼
1922-24	B-3	104	3½	¼	104	3½	¼
1923-24	L-1½	92	3	¼	92	3	¼
Walter							
1918-25	S-5-F	60	5	¼	112	2½	¼
1925-28	FH	120	5	¼	60	5	¼
1928	FHR	120	5	¼	60	3	¼
Ward Electric							
1921-23	WS-2	119	1½	5/16	119	1½	5/16
1924	WS-2	58	1½	5/16	15¾	1½	5/16
1921-26	WA, WM, C	72	2	5/16	72	2	5/16
1921-24	WD	79	2	¼	79	2	¼
1924-26	B-222	67	1¾	5/16	67	1¾	5/16
1921-24	WD	100	2¼	¼	100	2¼	¼
1921-24	WF	112	2½	¼	112	2½	¼
1921-24	WH	138	3	¼	138	3	¼
1924-26	A-211	67	2	5/16	64	1½	5/16
1924—26	E-G-211	89	2¼	¼	89	2¼	¼
1924-26	J-211	83	4	¼	83	3	¼
1924-25	35-50	95	2½	5/16	33¼	2½	5/16
1924-25	60	115	2½	5/16	85	2½	5/16
1924-25	80	120	3	¼	120	3	¼
Ward LaFrance							
1918-26	2A-2B	104	2½	¼	104	2½	¼
1918-26	3½-4A, 4-5B	128	3¾	¼	128	3¾	¼
1920-26	5A, 7B, 5-7	144	4	¼	144	4	¼
White							
1921-26	15	92	2½	5/16	82⅝	2½	5/16
1927	15	90¼	2½	¼	82⅝	2½	5/16
1923-25	15A	92	2½	5/16	82⅝	2½	5/16
1927-30	15B	90¼	2½	¼	82⅝	2½	5/16
1923-24	15-45	107¾	2½	5/16	101¾	2½	5/16
1925	15-45	108¼	2½	5/16	101¾	2½	5/16
1926	15-45	109	2½	¼	101¾	2½	5/16
1921-27	20 & 20D	111¾	3½	¼	101¾	3½	5/16
1927-30	20A	111¾	3½	¼	101¾	3½	5/16
1923	20-45	45½	5	5/16	101¾	3½	5/16
1924-25	20-45	47	5	5/16	101¾	3½	5/16
1921-26	40 & 40 D	47	4	5/16	104	5	5/16
1926-27	40A, 45A	47	5	5/16	104	5	5/16
1921-26	45, 45D	47	5	5/16	104	5	5/16
1922-23	50	47	5	5/16	101¼	3½	5/16
1924	50A	111¾	3½	5/16	98	3½	5/16
1925-26	50A	47	5	5/16	98	3½	5/16
1925-27	51	47	5	5/16	98	3½	¼
1927-30	51A	66¼	5	5/16	47	5	5/16
1926-30	52, 52T	47	5	5/16	104	5	5/16
1926	53	71¼	4	5/16	48	5	5/16
1927-30	53	66¼	4	5/16	48	5	5/16
1927-30	55	47	5	5/16	104	5	5/16
1927-30	56	66¼	4	5/16	24	5	5/16
1927-30	57	90¼	2½	¼	82⅝	2½	5/16
1928-30	58	47	5	5/16	61½	5	5/16
1929-30	60	133	2¼	5/16	24	5	5/16
1929-30	61	115¼	3½	¼	24	5	5/16
1929-30	65	133¾	5	5/16	24	5	5/16
Wilcox							
1920-25	C-E	115	2½	5/16	85	2½	¼
1920-25	F	139	3½	¼	104	3½	¼
1920-25	AA1-B1½	95	2½	5/16	67	2½	5/16
1925	Bus	114	5	¼	96	2½	¼
Willys-Knight							
1927-8-9	F100	85⅝	2¼	5/16	85⅝	2¼	5/16
		64⅛	1¾				
1929	T-101-T-103	65	1¾	5/16	80⅞	1⅝	5/32
		78½	2	5/16			
1929	15, 16, 20, 21	66	2	5/16	70	2¼	5/16
		90	2¼	5/16			
1929	25, 26	86	2¼	5/16	70	2½	5/16
		98	5	¼			
1929-30	C-101	53⅜	1¾	5/16	69¼	2	¼
		69¼	2	¼			
		64½	1¾	5/16	80⅞	1⅞	5/32
		80⅞	1⅞	5/16			
Wisconsin							
1922-24	2-2½	116	2½	7/32	113	2¼	7/32
Witt-Will							
1920-24	N-1½	104	3¼	¼	104	3¼	¼
1920-26	S-SS	104	3½	¼	104	3½	¼
1923-26	A-5	148	4	¼	148	4	¼
1924-25	N-P, 1½-2	104	3¼	¼	96	3¼	¼
1926	N	104	3¼	¼	104	3¼	¼
1926	P	104	3½	¼	104	3½	¼
Yellow Cab							
1923	T1	44½	2½	¼	22	2½	¼
1920-25	M-22-¾	98	2½	¼	90	2½	¼
1924-25	M-42-1¾	44	3	¼	22	3	¼
1924-25	Express	44	3½	¼	22	2½	¼
1925	T1	44	3½	¼	23	2½	¼
1925	T2	44	2½	5/16	45	2½	¼
1925	T3	44	2¾	¼	23	2	¼

Digitized by Google

Headlight Lens Sizes—Passenger Cars

MAKE AND MODEL	LENS DIAMETER (In.) 1925	1926	1927	1928	1929	1930
Ajax	8	8	D	D	D	D
Anderson "50"	8¾	D	D	D	D	D
Anderson "41"	9	D	D	D	D	D
Apperson "6"	8¾	8¾	D	D	D	D
Apperson "8"	9⅜	8¾	D	D	D	D
Auburn "6"	10	8½	D	D	D	D
Auburn "6-43"	8	D	D	D	D	D
Auburn "4"	10	...	D	D	D	D
Auburn "8-88"	8½	8½	8½	D	D	D
Auburn "6-66" & "8-77"	N	N	8½	D	D	D
Auburn 76, 88 & 115	N	N	N	11½	D	D
Auburn, All	N	N	N	N	11½	11½
Barley	7¾	D	D	D	D	D
Blackhawk L6, L8	N	N	N	N	11⅝	11⅝
Buick "6"	8½	D	D	D	D	D
Buick Master 6	9	8¾	8¾	8¾	D	D
Buick Std. 6, 116	8⅜	8¼	8¼	7¾	10	....
Buick 121, 129	N	N	N	N	10	....
Cadillac	9¼	9⅛ †10⅛	10⅛	10¼	10¼	12⅛
Cadillac	N	N	N	N	N	11¼
Case V, W, Y, JIC	9½	9⅜	9⅜	D	D	D
Case "X"	8½	D	D	D	D	D
Chandler Big 6, Roy. 75	8¾	a9	9½	9½	9½	D
Chandler Spec. 6	N	9	9	9	D	D
Chandler Roy. 8	N	N	9½	9½	9½	D
Chandler 65	N	N	N	N	9½	D
Chevrolet	7¾	a8	8⅝	8½	9⅝	9⅝
Chrysler "70"	8	8	8	8	D	D
Chrysler "4"	8⅞	8⅞	8½	8½	D	D
Chrysler "60"	N	7⅝	7⅝	D	D	D
Chrysler "62", 65, 75	N	N	7⅝	7⅝	....	D
Cleveland "43"	8½	8½	D	D	D	D
Cleveland "31"	8½	8½	D	D	D	D
Cole "8-70-90"	9½	D	D	D	D	D
Columbia	8	D	D	D	D	D
Cord L-29	N	N	N	N	N	10¼
Cunningham	11	11	11	11	11	11
Dagmar	10	10	10	D	D	D
Davis	8¾	8⅝ b7½	8¾	8¾	D	D
Diana	9⅜	9⅜	9⅜	9⅜	D	D
Dodge Brothers 4	8¾	....	....	8¼	D	D
Dodge Bros. Sen. 6	N	N	9	9	9½	9½
Dodge Bros. Vic. 6	N	N	N	9	D	D
Dodge Bros. 6	N	N	N	N	9	8½
Dodge Bros. DD6	N	N	N	N	N	8½
Dodge Bros. DC8	N	N	N	N	N	9
Dorris	9½	D	D	D	D	D
Duesenberg	10	10	....	D	....	11½
duPont	8¾	8¾	8¾	8¾	8¾	D
duPont G	N	N	N	N	....	9½
Durant	8½	8½	D	D	D	D
Durant 55	N	N	N	7¾	D	D
Durant 40	N	N	N	N	7	D
Durant 60	N	N	N	N	9⅜	D
Durant 66	N	N	N	N	9	D
Durant 70	N	N	N	N	9½	D
Durant 6-14, 6-17	N	N	N	N	N	8½
Elcar "4"	8	8	D	D	D	D
Elcar "6"	8	8	D	D	D	D
Elcar "8"	9½	9⅝	D	D	D	D
Elcar 6-70	N	N	8	8	D	D
Elcar 8-82	N	N	9	9⅝	D	D
Elcar 8-90, 120	N	N	9½	9½	....	....
Elcar 75, 95 & 96	N	N	N	N	9⅜	9⅜
Erskine	N	N	8	8	8	9
Essex "6"	8	8	8	8	8	8⅝
Falcon Knight	N	N	7⅛	7⅛	D	D
Flint 55-80	9½	9½	9	D	D	D
Flint 40-60-Z18	8½	8½	8½	D	D	D
Ford	8⅛	8⅛	8⅛	8½	8½	8½
Franklin	10¼	10¼	10¼	10⅝	9⅝	D
Franklin	N	N	N	N	10⅞	11½
Gardner "4"	8½	D	D	D	D	D
Gardner 130	9½	9½	9¾	9¾	9¾	D
Gardner 120, 125, 140	N	N	N	N	9⅛	9⅛
Gardner 136	N	N	N	N	N	9⅞
Gardner 150	N	N	N	N	N	9¾
Graham Std., Spec 6	N	N	N	N	N	9½
Graham, All Others	N	N	N	N	N	10¾
Graham-Paige 629	N	N	N	10	D	D
Graham-Paige 612, 615	N	N	N	N	9½	D
Graham-P. 621, 827, 837	N	N	N	N	10¾	D
Gray	8⅛	8⅛	D	D	D	D
Haynes	8⅞	D	D	D	D	D
Herts	7	7	D	D	D	D
Hudson	9	9	9	9	10	10
Hupmobile "4"	8¼	....	D	D	D	D
Hupmobile E, 125-8	8¾	8¾	9	9	....	D
Hupmobile A-1, 6, S	N	N	7⅝	7⅝	9½	9½
Hupmobile 8, C	N	N	N	9⅞	9½	9½
Jewett	8½	8½	D	D	D	D
Jordan	8¾	8¾	8¾	....	....	....
Jordan J	8½	8½	8½	8½	D	D
Jordan 70, 80	N	N	N	N	N	10½
Jordan 90	N	N	N	N	N	10⅛
Kissel	8¾	8¾	8¾	10¾	11	11
Lexington	9	9	D	D	D	D
LaSalle	N	N	9⅛	9⅛	9⅛	10¼
Lincoln	9¼	9¼	10¾	10¾	10¾	10¾
Locomobile 48	11	11	11	11	11	D
Locomobile 8	8⅞	8⅞	D	D	D	D
Locomobile 90	N	10	10⅞	10⅞	10⅞	D
Locomobile 8-66, 8-70	N	N	8	8	D	D
Locomobile 8-80	N	N	9	9	9	D
Locomobile 86, 88	N	N	N	N	10½	D
McFarlan TV	9	9½	9	9	D	D
McFarlan Str. 8	N	N	8½	9⅞	D	D
Marmon Six	9⅞	9⅞	9⅞	9⅞	....	D
Marmon, Little	N	N	8½	D	D	D
Marmon 68, 78	N	N	N	N	10¾	D
Marmon Roosevelt	N	N	N	N	10⅝	10⅝
Marmon Eight 69	N	N	N	N	N	10½
Marmon 8-79, Big 8	N	N	N	N	N	12
Marquette	N	N	N	N	N	9½
Maxwell	8⅞	D	D	D	D	D
Mercer	9½	D	D	D	D	D
Moon	8½	D	D	D	D	D
Moon 6-58, London	9	9	D	D	D	D
Moon "A"	8⅝	8⅝	8⅝	8⅝	D	D
Moon 6-60	N	8	8	8	D	D
Moon 6-72	N	N	N	9⅝	9⅝	D
Moon 8-80	N	N	N	9⅝	D	D
Nash	8¾	8¾	D	D	D	D
Nash Spec., Single 6	8	8	8	8	9⅝	9⅝
Nash Lt., Std. 6, Twin 6	8	8	8	8	9¼	9
Nash Adv., Twin 8	N	9	9	9	9½	9½
Oakland "44 & 54"	8¼	8¼	D	D	D	D
Oakland 6, 8	N	8½	8¾	8¾	8¾	9¼
Oldsmobile	7⅝	7⅝	8½	9	8⅝	8¾
Overland	8⅛	8⅛	8⅛	8⅛	10⅛	D
Packard 6	8½	8½	8½	8½	D	D
Packard "Twin", 8	9	9	9	9	9	D
Packard 726, 733	N	N	N	N	N	10⅝
Packard 740, 745	N	N	N	N	N	11⅝
Paige	9½	8½	9	D	D	D
Paige 6-45	N	8⅛	8⅛	D	D	D
Peerless	9	9	9	9	....	....
Peerless 6-80, 6-81, 6-61	N	8¼	8¼	8¼	8¼	D
Peerless 6-91	N	N	N	9	9	D
Peerless 8-69, 125	N	9½	10⅛	10⅛	10⅛	D
Pierce-Arrow	9¼	9¼	9¼	9¼	....	....
Pierce-Arrow "80", 81	8⅜	8⅜	8⅜	8½	....	D
Pontiac	N	8⅛	8⅜	8⅜	8⅜	9⅜
Reo, Master, 20, 25	9	9	9½	9½	9½	9½
Reo Wolver., Mate, 15	N	N	8⅜	8⅜	8⅜	8⅜
Revere	8	8	D	D	D	D
Rickenbacker	9	9	D	D	D	D
Rickenbacker 6-70	N	N	9	D	D	D
Rickenbacker 8-80, 8-90	N	N	8⅜	D	D	D
Roamer	8⅞	8⅞	9	9	9	9
Roamer 6-50	7¼	7¼	D	D	D	D
Rollin	8	D	D	D	D	D
Rolls-Royce	10⅜	10⅜	10⅜	10⅜	10⅜	10⅜
Roosevelt	N	N	N	N	10⅝	D
Star	7	7	7	D	D	D
Star 6	N	7¾	7¾	D	D	D
Stearns-Knight	9¼	9¼	10½	10½	10⅛	D
Stearns-Knight 6-80	N	N	N	N	9	D
Sterling Knight	9	D	D	D	D	D
Stevens Duryea	10¾	D	D	D	D	D
Studebaker Big 6, Com. 6 and 8	9½	9½	....	9⅝	9⅞	9⅞
Studebaker Std. 6, Dic.	8½	8½	....	9⅞	9⅞	9
Studebaker Pres. 8	N	N	N	11½	11½	11½
Stutz	9½	9½	9½	9⅝	11⅝	11⅝
Stutz "4-690"	8¾	D	D	D	D	D
Velie Std. 50	8⅜	8⅜	8	8	D	D
Velie 60, 6-77	N	8⅜	8⅜	11	D	D
Velie 8-88	N	N	N	11	D	D
Viking	N	N	N	N	11	11
Westcott "60"	8	D	D	D	D	D
Westcott	8¾	D	D	D	D	D
Whippet	N	N	N	N	10⅛	10⅛
Wills Ste. Claire	8	8	8	D	D	D
Willys-Knig't 66-A, Great	N	N	8⅛	8⅛	D	D
Willys-Knig't 70-A, Spec.	N	N	8¾	8¾	D	D
Willys-Knight Std. 6	N	N	N	8⅛	D	D
Willys-Knight	8½	8½	D	D	D	D
Willys-Knight 66B	N	N	N	N	8⅛	10¾
Willys-Knight 70B	N	N	N	N	10⅛	10⅛
Willys Six	N	N	N	N	N	10⅛
Windsor 8-82, 8-92, 8-85	N	N	N	N	11¼	11¼
Windsor 6-69, 6-75	N	N	N	N	N	9⅝

a—from Sept., 1925. b—from June, 1926. D—Discontinued N—Not manufactured.

Information on Lamps or Bulbs for Motor Vehicle Lights

(Supplementing the Mazda Lamp Data on Opposite Page)

Bulbs fall into two general classes, as determined by the base. Using the correct base is most important in headlight adjusting, because using the wrong base makes focusing and elimination of glare practically impossible.

Standard Base: With base pins at right angles to plane of filaments.

Ford Base (commonly so called): With base pins in plane of filaments.

If you remember that the plane on the "V" filament must always be horizontal, you won't go wrong.

Bulbs also fall into five classes according to voltage:

3–4 Volts made only with Standard Base.
6–8 Volts made both with Standard and Ford Bases.
9 Volts made only with Ford Base for old magneto light Fords. (Bulb 1160.)
12–16 Volts made only with Standard Base for Dodges up to 1927.
18-24 Volts made only with Ford Base for spotlight on old magneto-light Fords. (Bulb 1146.)

Practically all demands will be for the 6-8 and the 12-16 volt groups.

What Bulb Numbers Indicate

All numbers over 100 are for headlights.
All numbers from 61 to 94 are for auxiliary lights.
Even numbers indicate double contact (D.C.)
Odd numbers indicate single contact (S.C.)
Numbers 61 and 62 are the only 2 cp. bulbs and are always used on instrument board in series with the tail light.

Bulb Interchangeability—21 cp. and 32 cp.

	Standard Base				Ford Base		
	6-8 Volts		12-16 Volts		6-8 Volts		
21 cp.	1110	1129	1141	1142	1158*	1114*	1130
32 cp.	1116*	1133	1143	1144	None	1118*	1134

*These headlight bulbs can be accidentally put in upside down. Notice particularly how you put them in.

These data can be used in changing headlight bulbs from standard equipment 21 cp. bulb to 32 cp. bulb in the states which now permit the higher cp. light. As of September, 1930, these states permitted 32 cp.:

Alabama
California
Delaware
Iowa
Louisiana
Maine
Maryland
Massachusetts
New Jersey
New York
North Carolina
Ohio
Oregon
Pennsylvania
Texas
Utah
Vermont
Washington
West Virginia
Wisconsin

Digitized by Google

Mazda Lamp Numbers—Passenger Cars

Key to Mazda Lamp Numbers

Lamp number	61	62	63	64	67	68	81	82	89	90	1129	1130	1141	1142	1158	1101	1110
Base	S.C.	D.C.	S.C.	D.C.	S.C.	D.C.	S.C.	D.C.	S.C.	D.C.	S.C.	D.C.	S.C.	D.C.	D.C.	S.C.	D.C.*
Volts	3-4	3-4	6-8	6-8	12-16	12-16	6-8	6-8	12-16	12-16	6-8	6-8	12-16	12-16	6-8	6-8	6-8
Candlepower	2	2	3	3	3	3	6	6	6	6	21	21	21	21	21	21	21

S.C.—Single Contact. D.C.—Double Contact. * Double Filament.

MAKE OF CAR	Year	Mazda Lamp Numbers: Head	Aux. Head	Cowl	Tail	Instr. Bd.
Ajax	25-26	1129	N	63	63	..
Anderson	25	1129	..	63	63	63
Apperson	25	1129	N	63	63	64
Auburn	25	1129	81	63	63	64
Auburn	26	1158	N	63	63	63
Auburn 6-66, 8-77	27	1110	63	N	63	63
Auburn 8-88	27	1110	N	N	63	63
Auburn 6-80, 120	29	1129	N	63	63	63
Auburn 8-90	29	1158	N	63	63	63
Auburn	30	1129	N	63	63	63
Blackhawk	29-30	1133	..	63	63	63
Buick	25	1129	63	63	63	63
Buick	26	1110	63	63	63	63
Buick 115	27-29	1110	63	63	63	63
Buick 120-128	27-29	1110	N	63	63	63
Cadillac	25	1129	63	N	63	63
Cadillac	26	1110	63	N	63	63
Cadillac	27-30	1110	N	63	63	63
Case	25-26	1129	N	63	63	63
Chandler Std. & Sp.	a26-27	1129	N	63	63	63
Chandler, Others	25-27	1129	81	63	63	63
Chandler, All	28	1129	N	63	63	63
Chandler, All	29	1110	N	63	63	63
Chev. G & Sup.	25-26	1129	N	63	63	63
Chevrolet	27-28	1129	N	63	63	63
Chevrolet	29-30	1110	N	63	63	63
Chrysler	25-26	1129	63	63	63	63
Chrysler 80	26	1110	63	..	63	..
Chrysler 50, 62	27	1129	..	..	63	63
Chrysler 70	27	1129	..	63	63	63
Chrysler 80	27-28	1110	N	63	63	63
Chrysler 52	28	1129	..	63	..	63
Chrysler 62	28	1110	..	..	63	63
Chrysler 72	28	1110	..	63	..	63
Chrysler, All	29-30	1110	N	63	63	63
Cleveland	25-26	1129	63	63	63	63
Cord L-29	30	1110	..	63	63	63
Cunningham	26-30	1129	N	81	63	..
Dagmar	22-26	1129	81	64	63	64
Dagmar 6-60	27	1129	81	64	63	64
Dagmar 6-70	27	1129	81	N	63	64
Davis	25	1129	81	64	63	..
Davis	26	1110	N	..	..	..
Davis	27-28	1110	N	81	63	63
De Soto Six	29-30	1110	..	63	63	63
Diana	25-26	1129	63	63	63	63
Diana	27-28	1129	N	63	63	63
Dodge	25-26	1141	N	67	67	67
Dodge	27	1129	N	63	63	63
Dodge Sr. 6	28	1129	63	..	63	63
Dodge Vic. 6	28	1110	..	..	63	63
Dodge Bros. Sr. 6	29-30	1110	..	63	63	63
Dodge Bros.	30	1110	..	63	..	63
Duesenberg	25-26	1129	81	63	63	63
duPont	25-26	1129	81	64††	63	63
duPont	27-30	1129	81	63	63	63
Durant	25-26	1129	N	63	63	64
Durant 55, 40, 60	28-29	1129	N	N	63	64
Durant	30	....	..	63	63	63
Elcar	25-26	1129	81	63†	63	64
Elcar 8	26	1110	81	81	63	64
Elcar 6-70, 8-90	27-28	1110	81	N	63	63
Elcar 8-82	27-28	1110	81	N	..	81
Elcar 8-91, 120	28	1110	81	N	63	63
Elcar 75, 95 & 96	29-30	1110	..	..	..	64
Elcar 120	29	1110	..	..	..	..
Erskine	27	1110	81	N	63	63
Erskine	28-29	1110	..	N	63	63
Essex	25-26	1129	N	63	61	61
Essex	27	1129	N	63	63	63
Essex	28-30	1110	N	63	63	63
Flint	25-26	1129	..	63	63	63
Flint	27	1129	N	63	63	63
Ford T	25-26	1158	N	N	63	63
Ford T	27	1158	N	N	63	63
Franklin	25-26	1129	81	N	61	61
Franklin	27	1110	N	N	61	61
Franklin 130	29	1110	N	63	63	63
Franklin 135, 137	29	1129	N	63	61	63
Franklin	30	1110	..	63	63	63
Gardner	25-26	1129	N	63	63	63
Gardner	27	1110	63	N	63	63
Gardner	28	1110	63	N	63	83
Gardner	29	1110	63	81	63	83
Gardner	30	1110	N	81	63	63
Graham	30	1110	..	63	63	63
Graham-Paige 619, 629	28	1110	..	81	81	81
Graham-Paige	29	1110	..	63	63	63
Gray	25-26	1129	N	63	63	63
Hertz	25-26	1129	N	63	63	63
Hudson	25-26	1129	N	63	61	61
Hudson	27	1129	N	63	63	63
Hudson	28-29	1110	N	63	63	63
Hudson Great 8	30	1110	..	63	63	63
Hupmobile	25-26a	1129	..	63	63	63
Hupmobile	a26	1110	N	63	63	63
Hupmobile A, Cent. 6	27-28	1110	N	N	63	63
Hupmobile, Others	27-29	1110	N	63	63	63
Hupmobile A, S	29-30	1110	N	..	63	63
Hupmobile C	30	1110	N	N	63	63
Jewett	25	1129	..	63	63	64
Jewett	26	1129	N	64	63	..
Jordan	25-28	1129	81	63	63	63
Jordan R	27-28	1110	..	..	..	..
Kissel	25	1129	81	64	63	64
Kissel 55-75	24-26a	1129	..	63	63	64
Kissel	a26-30	1110	N	63	63	64
LaSalle	27-30	1110	..	63	63	63
Lexington	25-26	1129	81	63	63	64
Lincoln	25-26	1129	81	61	61	61
Lincoln	27-30	1110	81	61	61	61
Locomobile 6	25-26	1141	67	67	67	67
Locomobile Jr. 8	26	1129	81	63	63	63
Locomobile 48	27-29	1141	67	67	67	67
Locomobile 90, 8-66	27-28	1129	63	63	63	63
Locomobile 8-80	27-29	1129	63	63	63	63
Locomobile 8-70	27-28	1129	63	63	63	63
Locomobile 90	29	1129	63	63	63	63
Locomobile 86, 88	29	1129	..	63	63	63
McFarlan	25	1129	81	63	64	63
McFarlan	26	1129	..	81	63	64
McFarlan TV	27	1129	81	81	81	63
McFarlan Str. 8	27	....	..	81	81	63
McFarlan Str. 8	28	1110	..	81	63	63
McFarlan TV6	28	1129	81	81	63	63
Marmon	25-26	1129	81	81	63	63
Marmon, Little	27	1110	N	..	..	63
Marmon E-75	27-28	1110	N	81	63	63
Marmon 78	28	1110	N	..	..	..
Marmon 78	29	1129	N	..	..	..
Marquette	30	1110	..	63	63	63
Maxwell	25	1129	63	63	63	63
Mercer	25	1129	81	..	63	63
Moon	25-26	1129	81	63	63	63
Moon Series A	27-28	1129	N	63	63	63
Moon 6-60	27	1129	N	63	63	63
Moon 6-60	28	1130	N	63	63	63
Moon 6-72	28-29	1110	N	63	63	63
Nash	25-27	1129	N	63	63	63
Nash Adv.	a26-29	1110	N	63	63	63
Nash Spec.	27-29	1110	N	63	63	63
Nash Std. 6	28	1129	N	63	63	63
Nash Std. 6	29	1110	N	63	63	63
Nash Single 6	30	1110	..	63	63	63
Nash Twin Ign.	30	1120	..	63	63	63
Oakland	25-26	1129	81	63	63	63
Oakland	27-29	1110	N	63	63	63
Oakland 8	30	1110	..	63	63	63
Oldsmobile	25-26J	1129	63	63	63	63
Oldsmobile	J26-27	1110	N	63	63	63
Oldsmobile	29-30	1110	..	N	63	63
Overland	25-26	1129	N	N	61	61
Overland	27-28	1129	N	N	63	63
Overland-Whip.	96A	1110	N	N	63	63
Overland-Whip.	98A	1110	N	63	63	63
Packard 8	25-26M	1129	..	63	63	63
Packard 8	M26	1158	..	..	63	63
Packard 6	25	1129	81	63	63	63
Packard 6	26	1110	81	N	63	63
Packard 6	27-28	1110	63	N	63	63
Packard 8	28-30	1110	63	63	63	63
Paige	25	1129	81	..	63	81
Paige	26	1129	N	64	63	64
Paige	27	1129	N	63	63	64
Peerless 8	25	1101	81	81	61	61
Peerless 6	25-26	1129	63	63	63	63
Peerless 8	26	1110	81	..	61	61
Peerless 6-72	27	1129	R	63	63	63
Peerless 6-80	27-28	1110	N	81	63	63
Peerless 6-90, 8-69, 6-91	27-29	1110	N	63	63	63
Pierce-Arrow	25-28	1129	81	81	81	81
Pierce-Arrow 90	25	1129	81	81	81	63
Pierce-Arrow 133, 143	29	1129	..	81	81	63
Plymouth	29-30	1110	..	..	..	63
Pontiac	26-27	1129	N	63	63	63
Pontiac	28	1110	N	63	63	63
Pontiac Six	29-30	1110	..	63	63	63
Reo	25	1129	63	63	63	63
Reo	26-30	1110	N	63	63	63
Revere 25	25	1129	81	63	63	64
Rickenbacker	25	1158	..	63	63	63
Rickenbacker	26	1110	..	63	63	63
Rickenbacker	27	1110	N	63	63	63
Roamer	26	1129	63	63	63	64
Roamer	27-30	1129	63	81	81	64
Rollin	25	1129	81	63	63	63
Rolls Royce	25	1140	..	82	63	63
Rolls Royce	26-27	1130	82	82	82	64
Rolls Royce S.G.	28-30	1129	81	81	81	64
Rolls Royce N.P.	28	1110	..	81	81	64
Rolls Royce N.P.	29	1116	..	63	63	64
Star	25-26	1129	N	..	63	64
Star	27-28	1129	N	N	63	64
Stearns-Knight	25-26	1141	89	67	67	67
Stearns-Kn. 6-85	a26	1110	89	89	67	67
Stearns-Knight	27	1110	89	63	63	63
Stearns-Knight	28-29	1110	..	63	63	63
Stevens Duryea	25	1129	81	..	63	63
Studebaker	25	1129	..	81	63	62
Studebaker	26-28	1110	N	81	63	63
Studebaker	a26	1110	N	81	81	81
Studebkr. Com. 6 & 8	29-30	1110	..	63	63	63
Studebkr. Dict.	29	1110	N	81	63	63
Studebkr. Dict.	30	1110	N	63	63	63
Studebkr. Pres.	29-30	1110	N	63	63	63
Stutz	25	1129	81	63	63	63
Stutz	26-27	1110	63	N	63	63
Stutz	28	1110	63	81	63	63
Stutz, Series M	29-30	1133	N	63	63	63
Velie	25-26	1129	81	63	63	63
Velie Std. 50	27-28	1129	..	..	63	63
Velie, Others	28	1129	..	63	63	63
Viking	29-30	1110	N	N	63	63
Whippet 96A	.....	1110	N	N	..	63
Whippet 98A	.....	1110	N	63	..	63
Wills St. Claire	25	1101	..	63	63	63
Wills St. Claire	26	1129	N	N	63	63
Wills St. Claire	27	1110	N	N	63	63
Willys-Knight	25	1129	81	63	61	61
Willys-Kn. 66	26	1129	N	81	63	63
Willys-Kn. 70	26	1110	..	..	..	..
Willys-Kn. 66-A	27	1129	R	63	63	63
Willys-Kn. 70-A	27	1110	N	63	63	63
Willys-Knight Std. 6	28	1110	N	..	..	..
Willys-Kn. Gt. 6	28	1129	..	63	63	63
Willys-Knight Spe. 6	28	1110	N	63	63	63
Willys-Kn. 66B	29	1129	N	63	63	63
Willys-Kn. 70B	29-30	1110	N	63	63	63
Willys-Kn. 66B	30	1110	N	63	63	63
Willys Six	30	1110	N	63	..	63
Windsor 8-82, 8-92	29	1110	N	63	63	63
Windsor	30	1110	N	63	63	63

* 64 on closed models.
‡ 63 on closed models.
†† 63 on 1925-26 models.
† 64 on 1926 models.
J July.
N None.
a August.
M May.

Digitized by Google

Exhaust Pipe Diameters—Passenger Cars

For Fitting Mufflers, Muffler Cutouts and Car Heaters

Make and Model	INCHES					
	1925	1926	1927	1928	1929	1930
Ajax	1¾	1¾	D	D	D	D
Anderson, Series 40, 41	2	D	D	D	D	D
Anderson, 50	2¼	D	D	D	D	D
Apperson 6	2	2	D	D	D	D
Apperson 8	1¾	2	D	D	D	D
Auburn-Open & 6-66, 76	2¼	2¾	1¾	2	D	D
Auburn Closed Model & 6-43	2	...	D	D	D	D
Auburn 8-88, 115	2¼	2¼	2¼	2¼	D	D
Auburn 8-77, 88	N	N	2½	2¼	D	D
Auburn 6-80, 6-85	N	N	N	N	2	2
Auburn 8-90, 120, 8-95, 125	N	N	N	N	2¼	2¼
Barley 6	2	D	D	D	D	D
Blackhawk L6, L8	N	N	N	N	2¼	2¼
Buick, others	2	2¼	2¼	2¼	2½	...
Buick, Std., 115, 116	1¾	2	2	2	2¼	D
Cadillac	1¾	1¾	1¾	2⅛	2½	2½
Case, V, W & X	2¼	D	D	D	D	D
Case, Y	2½	2½	....	D	D	D
Case, J. I. C	2¼	2¼	....	D	D	D
Chandler	2	2¼	2¼	2¼	2¼	D
Chandler Std., Spec., 65	N	2	2	2	2	D
Chevrolet	2	2⅛	2⅛	2⅛	2	2
Chrysler 6 G, 70, 72	2	2	2	2	....	....
Chrysler 58	1⅝	1⅝	D	D	D	D
Chrysler 80, Imp. 80	N	2½	2½	2½	2½	2½
Chrysler 50, 52	N	1⅝	1⅝	1⅝	D	D
Chrysler 60, 62	N	N	1¾	1¾	....	D
Cleveland	2	2	D	D	D	D
Cole, 8	2⅝	D	D	D	D	D
Columbia, 6	2	D	D	D	D	D
Cunningham	2¼	2¾	2½	2½	2¾	2¾
Dagmar	2½	2½	2½	D	D	D
Davis, 90, 93	2	1¾	D	D	D	D
Davis, 91, 92	2¼	2¼	D	D	D	D
Davis, 92-27	N	2¼	2¼	D	D	D
Davis, 94-27	N	N	1¾	D	D	D
Davis, 98-27, 99	N	N	2	2	D	D
De Soto Six	N	N	N	N	1⅝	1⅝
De Soto St. 8	N	N	N	N	N	....
Diana, Str. 8	2¼	2¼	2¼	2¼	D	D
Dodge Brothers	2	2	2	2	2	2
Dodge Brothers DD6	N	N	N	N	N	1⅝
Duesenberg	2⅜	2⅜	....	D	....	4¾
duPont G	2¼	2¼	2¼	2½	2½	2½
Durant, A-22, 4	1¾	1¾	D	D	D	D
Durant, others, 6-14	N	N	N	1¾	1¾	2
Durant 75, 70, 6-17	N	N	N	2¼	2¼	2¼
Elcar 6-70, 75	N	N	2	2	2	2
Elcar, all others	2¼	2¼	2¼	2¼	2¼	2¼
Elcar, 130, 140	N	N	N	N	N	...
Erskine Six, 53	N	N	....	1¾	1¾	1¾
Essex 6, Super 6	2	1¾	1¾	1¾	1¾	2
Falcon-Knight	N	N	1⅝	1⅝	D	D
Flint Z-18	N	1¾	1¾	D	D	D
Flint, all others	2¼	2¼	2¼	D	D	D
Ford	1½	1½	1½	2	2	2
Franklin 145, 147	1½	2	2	....	2⅛	2½
Gardner 140, 150	2¼	2¼	2¼	2¼	2¼	2¼
Gardner 80	N	N	2	D	D	D
Gardner, 136	N	N	N	N	N	2
Graham, Std. 6, Spec. 6	N	N	N	N	N	2
Graham, Spec. 8, Std. 8, Cus. 8	N	N	N	N	N	2½
Graham-Paige 612, 615	N	N	N	N	2	D
Graham-Paige, all others	N	N	N	2½	2½	D
Gray	1¾	1¾	D	D	D	D
H. C. S	2¼	D	D	D	D	D
Haynes, 60	2⅜	D	D	D	D	D
Hertz D-1	2	2¼	....	D	D	D
Hudson	2¼	2¼	2¼	2¼	2¼	2
Hupmobile, R	1¾	D	D	D	D	D
Hupmobile, all others	2	2	2	2	2	2
Hupmobile H, U	N	N	N	N	N	....
Jewett	2	1¾	D	D	D	D
Jordan	2¼	2¼	2¾	2¼	2¼	2¼
Jordan, J. R	2	2	2	2	D	D
Jordan, Z Speedway	N	N	N	N	N	2½
Kissel, 45 & 75	2¾	2¼	2¾	D	D	D
Kissel 6-73, 8-95	N	N	N	N	2	2
Kissel, all others	2¼	2¼	2¼	2¼	2¼	2¼
La Salle	N	N	2⅛	2⅛	2½	2⅛
Lexington	2	2¼	D	D	D	D
Lincoln 8	2¼	2½	2½	2½	2½	2½
Locomobile, 48	2¾	2¾	2¾	2¾	2¾	D
Locomobile, 8	2	2	2	2¼	2¼	D
Locomobile, 90	N	2¼	2¼	2¼	2¼	D
Locomobile, 8-70	N	N	2	2	D	D
Marmon	2½	2½	2½	2½	D	D
Marmon, Little, 68, 78, Roosevelt, Eight 69	N	N	2	2	2	2
Marmon, Eight 79, Big Eight	N	N	N	N	N	2¼
Marquette	N	N	N	N	....	....
Maxwell	1⅝	D	D	D	D	D
McFarland, TV	3	3	3	3	D	D
McFarlan, SV, St. 8	2¼	2¼	2¼	2¼	D	D
Mercer	2¼	D	D	D	D	D
Moon	2¼	D	D	D	D	D
Moon 6-40	2	D	D	D	D	D
Moon 6-60	N	1¾	1¾	1¾	D	D
Moon Series A, Newp	2	2	2	2	D	D
Moon, Metro, London	2¼	2¼	D	D	D	D
Moon 6-72, 8-80	N	N	N	2¼	2¼	D
Nash 6, Std. Single 6	2	2	1¾	1¾	1¾	1¾
Nash Adv. Twin Ign. 6-8	N	2	2	2	2	2
Nash Spec	N	1¾	1¾	1¾	1¾	D
Oakland	2¼	2¼	2¼	1½	1½	2
Oldsmobile	2	2	1¾	2	2	2
Overland 4, Whippet 4	2	2	1⅝	1⅝	1⅝	D
Overland 6, Whippet	1⅝	1⅝	1⅝	D	1¾	D
Packard 6, 626, 633, 726, 733	2¼	2¼	2¼	2¼	2¼	2¼
Packard 8, 740, 745	2¼	2¼	2⅝	2⅝	2⅝	2⅝
Paige 6-45	N	N	1¾	D	D	D
Paige 6-65-75	N	2	2	D	D	D
Paige 8-85	N	N	2½	D	D	D
Paige 6-66-70, etc	2½	2	D	D	D	D
Peerless 56-66	1⅞	D	D	D	D	D
Peerless 6-80, 6-81, 61-A	N	2½	2¼	2¼	2¼	2¼
Peerless, all others	2¼	2¼	2¼	2¼	2¼	2½
Pierce-Arrow 36	N	N	2⅞	2⅞	D	D
Pierce-Arrow 33	2⅞	2⅞	D	D	D	D
Pierce-Arrow 132	N	N	N	N	N	2½
Pierce-Arrow, all others	2¼	2¼	2¼	2¼	2¼	2¼
Pontiac 6-30	N	1⅞	1⅞	2	2	2
Reo 15, 20, 25	2½	2	2¼	2¼	2¼	2¼
Revere	3	3	D	D	D	D
Rickenbacker D & E	2¼	2¼	D	D	D	D
Rickenbacker 8	1¾	1¾	2¼	D	D	D
Rickenbacker 6-70	N	N	2¼	D	D	D
Roamer 8-88, 8-80	2¼	2¼	2¼	2¼	2¼	2½
Roamer 4-75	2½	2½	D	D	D	D
Roamer 8-78	N	N	N	N	N	....
Rollin	1½	D	D	D	D	D
Rolls-Royce	3	3	3	3	3	3
Roosevelt	N	N	N	N	2	D
Star	1¾	1¾	1¾	1¾	D	D
Stearns-Knight 4	2¼	2¼	D	D	D	D
Stearns-Knight 6, M & N	2½	2½	2½	2½	2¼	D
Stearns-Knight C, 75	2¼	2¼	D	D	D	D
Stearns-Knight 8, H & J	N	N	2½	2½	2½	D
Sterling Knight	2¼	D	D	D	D	D
Stevens-Duryea	2½	D	D	D	D	D
Studebaker L6	1¾	1¾	D	D	D	D
Studebaker Std., Big 6	2	2	....	D	D	D
Studebaker Dic. 6, 8	N	N	N	1¾	1¾	1¾
Studebaker Com. 6, 8	N	N	N	2	1¾	1¾
Studebaker Pres. 8	N	N	N	2¼	2¼	2¼
Stutz Series M	2⅛	2½	2½	2¾	2¾	2¾
Velie 60, 56	2	2¼	D	D	D	D
Velie Std. 50	N	2	2	2	D	D
Velie, all others	N	2¼	2¼	2¼	D	D
Viking	N	N	N	N	2¼	2¼
Whippet 96A	....	....	....	....	....	1⅜
Whippet 98A	....	....	....	....	....	1¾
Wills Ste. Claire A, B, C	2	2	D	D	D	D
Wills Ste. Claire W6	2¼	2¼	D	D	D	D
Wills Ste. Claire T6	N	2¼	2¼	D	D	D
Willys-Knight 70, Spec. 6, 70B	N	1¾	1¾	1¾	1¾	1¾
Willys-Knight 4	2	D	D	D	D	D
Willys-Knight 66, Great 66B	....	2⅛	2¼	....	2¼	2¼
Willys Six 98B	N	N	N	N	N	2
Windsor, 8-85, 8-92	N	N	N	N	2¼	2¼
Windsor, 6-75	N	N	N	N	1¾	2¼

D—Discontinued. N—Not manufactured.

Cost of Reclaiming Crankcase Oil

As Reported by Large and Small Fleet Owners

Location of Fleet	Oil Reclaiming Cost in Cents Per Gallon
Akron, Ohio	8.0
Akron, Ohio	10.8
Akron, Ohio	6.5
Chicago	6.4
Detroit	6.0
Detroit	5.0
Kansas City	8.3
Milwaukee	10.2†
Oakland, Calif.	6.0
Pittsburgh	14.7
Report to R.D.A.*	11½
Report to S.A.E. Comm.	8 to 18
Rockford, Ill	9.0
Saginaw, Mich.	7 to 8
Washington, D. C.	8.0
West Chester, Pa.	13.0

† Without labor or interest on cost of outfit.

* Retail Delivery Association.

Digitized by Google

Crankcase Oil Capacities—Passenger Cars

For Tools and Equipment Needed in Lubrication Service, see List Page 185.

Make and Model	CAPACITY IN QUARTS					
	1925	1926	1927	1928	1929	1930
Ajax	....	4	D	D	D	D
Anderson	6	D	D	D	D	D
Apperson "8"	8	D	D	D	D	D
Apperson "6"	6	D	D	D	D	D
Auburn	6	D	D	D	D	D
Auburn 6-63, 8	6	7	D	D	D	D
Auburn 6-66, 8-77, 88	N	N	6	7	N	D
Auburn 8-88, 115	....	8	8	8	8	8
Auburn 6-80, 6-85	N	N	N	N	6	6
Auburn 8-90, 8-95	N	N	N	N	7	7
Blackhawk L6	N	N	N	N	9	9
Blackhawk L8	N	N	N	N	8	8
Brewster	D	D	D	D	D	D
Buick 6	6	5	D	D	D	D
Buick 4	D	D	5¼	D	D	D
Buick Master 6	N	6	D	D	D	D
Buick 40, 120, 128, 121,129	N	6	5½	6½	6½	7½
Buick Std., 116, 50, 60	N	N	5	5	5½	6½
Cadillac 353	7	8	8	8	8	8
Cadillac 452	N	N	N	N	N	10
Case X	6	D	D	D	D	D
Case Y, JIC	7	7	....	D	D	D
Chandler	8	8	....	....	....	D
Chandler Big 6, Roy. 75	N	8	8	8	8	D
Chandler Spec. 6	N	7	7	8	D	D
Chandler Std. 6	N	6	6	D	D	D
Chandler Roy. Std. 8	N	N	9	9	D	D
Chandler 65	N	N	N	N	7	D
Chevrolet	4	4	4	4	5	5
Chrysler 62, 65, 75, 66, 70, 77	N	N	6	6	6	6
Chrysler 6-70, 72	6	6	6	6	D	D
Chrysler 4, 52	4	4	4	4	D	D
Chrysler 60	N	6	6	D	D	D
Chrysler 80,Imperial	N	8	8	8	8	8
Cleveland	7	6	D	D	D	D
Cleveland 43	7	7	D	D	D	D
Cole	6	D	D	D	D	D
Cunningham V-9	8	8	8	8	8	8
Dagmar	....	....	6	D	D	D
Davis 98, 99	N	N	8	8	D	D
Davis	6	....	6	D	D	D
Davis	5	....	D	D	D	D
De Soto Six	N	N	N	N	6	6
De Soto St. 8	N	N	N	N	N	7
Diana Str. 8	8	8	7½	7½	D	D
Dixie	5	D	D	D	D	D
Dodge Bros. 4	5	5	5	5	D	D
Dodge Bros. Senior 6	N	N	7	7	7	7
Dodge Bros. Victory 6	N	N	N	8	D	D
Dodge Bros. 6, DD6, DC 8	N	N	N	N	6	6
Duesenberg	6	6	D	D	..	12
duPont	11	7	10	10	10	D
duPont G	N	N	N	N	12	12
Durant 40	N	N	N	N	4	D
Durant	5	5	D	D	D	D
Durant 55, 65, 60, 66, 6-14	N	N	N	6	6	6
Durant 75, 70, 6-17	N	N	N	7	7	7
Elcar 4	5	5	D	D	D	D
Elcar 6, 75-A	6	6	5	6	6	6
Elcar 8-82, 8-78	N	N	6	7	D	D
Elcar 8-90, 8-91, 120, 130, 140	8	8	8	8	8	8
Elcar 95, 96	N	N	N	N	8	8
Erskine Six 53	N	N	5	5	5	8
Essex Super 6	5	5½	6	6	6	5
Falcon Knight 12	N	N	8	8	D	D
Flint	6	6	D	D	D	D
Flint B-60	N	6½	6	D	D	D
Flint Z-18	N	5	5	D	D	D
Flint 80	N	N	6	D	D	D
Ford A	4	4	4	5	5	5
Franklin 145, 147	5	5	5	6	6	6
Gardner 80	N	N	7	D	D	D
Gardner 75, 85	N	N	N	8	D	D
Gardner 90, 95	N	N	8	8	D	D
Gardner 4	5	D	D	D	D	D
Gardner 8	8	7	D	D	D	D
Gardner 6	....	6	D	D	D	D
Gardner 120, 125, 130, 140, 150	N	N	N	N	8	8
Gardner 136	N	N	N	N	N	7
Graham, Std. 6 and Sp. 6	N	N	N	N	N	6
Graham Spec. 8, Std. 8, Cus. 8	N	N	N	N	N	8
Graham-Paige 612, 615	N	N	N	N	6	D
Graham-Paige 621	N	N	N	N	7	D
Graham-Paige 827, 837	N	N	N	N	8	D
Gray	5	....	....	D	D	D
Handley Knight	....	D	D	D	D	....
Haynes	7	D	D	D	D	D
Hertz	....	7	....	D	D	D
Hudson Great 8	8	9	9	9	7	8
Hupmobile R	6	D	D	D	D	D
Hupmobile H, U, E, Cent. 125-8	8	8	9½	....	....	12
Hupmobile A-1, 6, S	....	8	8	6	6	6
Hupmobile 8, C	N	N	N	8	8	9
Jewett	8	6	D	D	D	D
Jordan 6	7	D	D	D	D	D
Jordan "8"	8	8	D	D	D	D
Jordan St. 8	....	7	D	D	D	D
Jordan R, E	N	N	5	5	5	D
Jordan AA	N	8	8	D	D	D
Jordan J-1, JE, JJ, G	N	N	8	8	8	8
Kissel 55	8	11	10	D	D	D
Kissel 8-65, 6-70, 6-73	N	N	7	7	7	7
Kissel 8-80, 8-80S, 8-95	N	N	N	11	11	11
Kissel 75, 8-90, 8-126	8	13	12	12	12	12
La Salle 340	N	N	8	8	8	8
Lincoln 8	10	10	10	10	....	10
Locomobile 48	N	6	6½	6½	6½	D
Locomobile 8-66, 8-70	N	N	6	8	D	D
Locomobile 8-80	N	N	8	8	8	D
Locomobile	7	6	D	D	D	D
Locomobile Jr. 8	7	7	D	D	D	D
Locomobile 90, 86, 88	N	8	8	8	8	D
McFarlan TV	10	....	10	10	D	D
McFarlan St. 8	N	N	8	8	D	D
Marmon	10	....	D	D	D	D
Marmon, Little	N	N	6	D	D	D
Marmon E-75, 68, 78 Eight 69, Roosevelt	N	N	10	6	6	6
Marmon, Big Eight	N	N	N	N	N	10
Marmon, Eight 79	N	N	N	N	N	10
Maxwell	4	D	D	D	D	D
Mercer	....	D	D	D	D	D
Moon A, 6-60	6	6	6	6	D	D
Moon 6-72	N	N	N	5	5	D
Moon 8-80	N	N	N	8	D	D
Nash	6	....	D	D	D	D
Nash Advanced Twin Ig. 8	8	8	8	8	8	6
Nash Lt. 6 Twin Ign. 6	N	4	4	D	D	D
Nash Spec.	N	N	7	7	7	8
Nash Std. 6 Single 5	N	N	N	5	5	5
Oakland 8	4	6	6	6	6	7
Oldsmobile F-30	6	6	6	7	6	6
Overland 4, 96A	6	6	5	5	5	D
Overland 6-93	9	6	D	D	D	D
Overland 6 Whippet	N	N	6	D	D	D
Overland 98A	N	N	N	N	6	D
Packard 6	9	7½	6	7	D	D
Packard 8, 626, 633, 726, 733	6	8½	7½	8	8	8
Packard 640, 645, 740, 745	N	N	N	N	10	10
Paige	8	6	6	D	D	D
Paige 8-85	N	N	8	D	D	D
Peerless 8	8	10	D	D	D	D
Peerless 6	10	8	D	D	D	D
Peerless 6-60, 6-61, 61-A	N	N	....	5	5	5
Peerless 6-80, 6-81	N	6	6	6	7	D
Peerless 6-72	N	N	8	D	D	D
Peerless 6-90, 6-91	N	N	9	9	9	D
Peerless 8-69, Mas. 8, Cus. 8	N	10	10	10	....	10
Pierce Arrow 36	11	10½	10½	10½	D	D
Pierce Arrow 80, 81	9	9	9	9	D	D
Pierce Arrow 133, 143	N	N	N	N	9	9
Plymouth	N	N	N	N	4	6
Pontiac 6-30	N	6	6	6	....	6
Reo 20, 25	7	7	6	6	6	6
Reo, The Mate, 15	N	N	N	N	5	5
Revere	....	6	D	D	D	D
Rickenbacker	7	8	8	D	D	D
Roamer 8-80, 8-88	N	8	8	8	8	8
Roamer 4-75	....	....	D	D	D	D
Roamer 6-54	....	....	D	D	D	D
Roamer 8-78	8	8	7	7	....	....
Rollin	5	D	D	D	D	D
Rolls Royce	6	6	6	6	6	6
Rolls Royce N. P.	N	N	N	N	7	7
Roosevelt	N	N	N	N	6	D
Star	4	4	4	4	D	D
Star 6	....	6	5	D	D	D
Stearns Knight, H & J	10	....	10	10	10	D
Stearns Knight 95	N	10	D	D	D	D
Stearns Knight Light 6, 75	8	8	D	D	D	D
Stearns-Kni. M&N 6-80	N	N	N	N	8	D
Stevens Duryea	12	D	D	D	D	D
Studebaker	6	8	D	D	D	D
Studebaker S & B	8	9½	D	D	D	D
Studebaker Std. 6, Dict. 6	N	8	8	8	8	8
Studebaker Spec. 6	N	9½	9½	D	D	D
Studebaker Big 6, Com. 6 and 8	N	9½	7	9	8	8
Studebaker Pres.	N	N	N	8	8	8
Studebaker Dict. 8	N	N	N	N	N	6½
Stuts Series M	12	9	12	12	12	12
Velie	5	6	8	8	D	D
Westcott	6	D	D	D	D	D
Westcott 38 & 44	6	D	D	D	D	D
Wills St. Claire	8	10	8	D	D	D
Willys Knight	6	8	8	8	8	8
Willys Six 98B	N	N	N	N	N	7
Windsor, 8-85, 8-92	N	N	N	N	8	8
Windsor, 6-69	N	N	N	N	N	6
Windsor 6-75	N	N	N	N	N	5

D—Discontinued. N—Not manufactured.

Digitized by Google

Anti-Freeze Requirements

Cooling System Capacities by Makes and Models

Auburn 6-66, 1926	17½
Auburn 6-66, 1927	14
Auburn 8-77, 8-88, 1926, 1927	20
Auburn 76, 1928	15
Auburn 88, 1928	16
Auburn 115, 1928	20
Auburn 6-80, 1929, 1930	19
Auburn 8-90, 1929, 1930	22
Auburn 120, 1929, 1930	25
Austin 1930	6
Blackhawk L6, 1929, 1930	24
Blackhawk L8, 1929, 1930	26
Buick Std., 1926, 1927	12
Buick Mstr., 1926, 27	18
Buick 115, 1928; 40, 1930	16
Buick 120 & 128, 1928	20
Buick 116, 40, 1928, 29, 30	17
Buick 121, 129, 1928, 29	22
Buick 50, 60, 1930	22½
Buick 8-50	12
Buick 8-60	15
Buick 8-80, 8-90	19
Cadillac 314	22
Cadillac 341A, 341B, 353	24
Cadillac 453	28
Chandler 35, 1926, 27	20
Chandler Spec. 6	16
Chandler Std. 6	10
Chandler Roy. 8, Big 6	22
Chandler 65	12
Chandler Royal 75	17
Chevrolet, 1929, 1930	10
Chevrolet, 1926, 27, 28	8
Chrysler 52, 66, 1929	14
Chrysler 58, 1925, 26	13
Chrysler 60, 1926	12
Chrysler 62	11
Chrysler 70, 1925, 26, 27	16
Chrysler 72	17
Chrysler, 80, 1926, 27	20½
Chrysler 65	13
Chrysler 75	15
Chrysler 70, 77, 1929	21
Chrysler Imp. 80	21
Chrysler Six 1930	12
Chrysler 8, 1930	16
Cleveland 31, 1925, 26	10
Cleveland 43, 1925, 26	16
Cord, 1929	28
De Soto All	11
Diana All	18
Dodge Bros. Four, 1924, 1928	11
Dodge Bros. Std., 1928	13
Dodge Bros. Senior, 1928, 1929	17
Dodge Bros. Vic'y, 1928	12
Dodge Bros. 6, 1929, 30	16
Dodge Bros. 8, 1930	17½
Duesenberg St. 8, 1929	28
duPont G, 1929, 1930	26
Durant 55-65, 60, 63, 66, 1929	12
Durant 75, 70, 6-17	14½
Durant 40, 1929	8
Durant 6-14	14
Elcar 6-70	13
Elcar 8-82	17
Elcar 8-90	21½
Elcar 8-78	16
Elcar 8-91,8-92-120	22
Elcar 75, 75 A	14
Elcar 95 & 96, 1929 1930	18
Erskine 6, 52, 1929	13
Essex Six All	19
Flint E-80 and 55	19
Flint Z-18	11
Flint 60	13½
Flint 80	18
Ford T, 1924 to 27	12
Ford A	12
Gardner 6-B, 75, 80, 85-88, 90, 95, 136	17
Gardner 8-B. '26, 140-'30	19
Gardner 150, 1929, 1930	23
Graham Std. 6	18
Graham Spec. 6	20
Graham Spec. & Std. 8	26
Grah. Paige 610, 614, 615	20
Grah. Paige 619, 629, 835	26
Graham Paige 612, 1929	18
Graham Paige 621, 1929	25
Graham Paige 827, 837	27
Hudson, 1924 to 1927	16
Hudson, 1928, 1929	22
Hudson Eight	18
Hupmobile 6, 1926, 27, 28	13
Hupmobile 8, 1925, 26, 27	19
Hupmobile M-8, M, 1929	22
Hupmobile S, 1929	13
Hupmobile S, 1930	14
Hupmobile C, 1930	20
Hupmobile H and U	28
Jewett New Day, '26, 27	12
Jordan A, 1926, 1927	20
Jordan J Eight, E, '26-29	17
Jordan R	12
Jordan JE	20
Jordan G, T, 1929, 1930	18
Kissel 6-70, 6-73	16
Kissel 8-80, 8-80S, 8-95	20
Kissel 8-90, 8-126	24
LaSalle, 1928	20
LaSalle 328, 1929	21
LaSalle 340	24
Lincoln, 1925, 26, 27	30
Lincoln 8, 1928, 1929	32
Loco. Jr. 8 All	18
Loco. 48, 1924, 25, 26, 27, 28	32
Loco. 90, 90, 1929	19
Loco. 8-70, 1928	21
Loco. 8-80, 1928, 86, 88, 8-80	23
Locomobile 48, 1929	27
Marmon 6,1924,25,26,27	22
Marmon Eight	18
Marmon 68, 1928	18
Marmon E75, 1928	22
Marmon 68, 78, 1929	20
Marmon 69, 1930	16
Marmon 79, Big 8	28
Marquette, 1929, 1930	12
McFarlan St. 8 and TV	20
Moon A-6, 1924, 25, 26	15
Moon 6-60	12
Moon 6-72	14
Nash Light and Std. 6, 1926, 27, 28	11
Nash Adv. & Spec., 1926	22
Nash Adv., 1927, 28	22
Nash Spec., 1927	20
Nash Spec., 1928	16
Nash Adv. 400, Adv. 6, 1929	19
Nash Std. 6, 1929	10
Nash Spec. 6, 1929	17
Nash Single 6, 1930	12
Nash Twin Ign. 6	16
Nash Twin Ign. 8	22
Oakland, 1925, 26, 27	12
Oakland 6, 1928	11
Oakland AA6, 1928	12
Oakland AA6, 1929	22
Oakland Eight	25
Olds. 6, 1925, 26, 27	12
Oldsmobile F-29, F-30	13
Overland 4-96, 1926	8½
Overland 4 Whippet	11
Overland 6, 1926, 1927	12
Overland Whippet 96A, 1929	11½
Overland Whippet 98A, 1929	15½
Packard 6, 1925, 26, 27	17
Packard 6-28, 6-26, 6-33, 1929	20
Packard 8, 1925, 26, 27	24
Packard 8, 1928, 6-40, 6-45, 1929	25
Packard 726, 733, 1930	20
Packard 740, 745, 1930	26
Paige 6-45	12
Paige 6-72, 6-65, 1926, 27	22
Paige 8-85	23
Peerless 6-72, 1925, 26	18
Peerless 6-72, 1928	13
Peerless 6-80, 6-90	14
Peerless 8-69, 1926, 1927, 1928	24
Peerless 6-60, 1928	12
Peerless 6-80, 6-91, 1928, 1929	14
Peerless 6-61, 6-61A	12½
Peerless 6-81, 1929	13½
Peerless 125, 1929	20
Peerless St. 8, 1930	23½
Pierce-Arrow 33,1925, 1927; 133, 143, 1929, 1930	26
Pierce-Arrow 80 All	22
Pierce-Arrow 81	21
Plymouth	14
Pontiac, 1929, 1930	14
Reo T6, 1924, 25, 26	14
Reo Flying Cloud	16
Reo Wolverine, B2 Fl. Cloud, 1929, 15-1929	14
Reo C Fl. Cloud, 1929	19
Reo 20, 25, 1930	19
Rolls-Royce S.G.	36
Rolls-Royce N.P.	32
Roosevelt	22
Roosevelt, 1930	16
Star 4, 1924, 25, 26, 27, 28	8
Star 6, 1926, 27	12
Stearns-Knight 75, 1925, 26	20
Stearns-Knight 95, 1925, 26	28
Stearns-Knight F6-85	26
Stearns-Knight G8-85	28
Stearns-Knight H&J	28
Stearns-Knight H&J, 8-90	30
Stearns-Knight M&N 6-80	18½
Studebaker Std.	17
Studebaker Spec., 1925, 26	18
Studebaker Big, 1926, 27	19
Studebaker, Dict. 6&8	15
Studebaker, Com., 1928	20
Studebaker Pres. 8	21
Studebaker Dic. 6&8, 1929	15
Studebaker Com. 6	17
Studebaker Com. 8	14
Studebaker Pres. 8	21
Stutz 8, 1926, 27, 28, 29, 30	28
Velie 60, 1925, 26	19
Velie Std. 50, 1927, 28	19
Velie Spec. 60, 1927	20
Velie 77, 66-1928	20
Viking V-29, V-30	33
Wills Ste. Claire T6&W6	32
Wills Ste. Claire C&D-68	26
Willys Six, 98B	14
Willys 8-80, 1930	20
Willys-Knight 4-65	22
Willys-Knight 66, 1925, 26	23
Willys-Knight 66-A, 1927, 28; 66-8, 1929, 1930	21
Willys-Knight 70, 1925 26, 27, 70-B, 1929, 1930	17
Willys-Knight 56	14
Willys-Knight 70-A, 1928	16
Windsor 6-69, 1929, 1930	12
Windsor 6-72, 6-77, 1929	14
Windsor 8-82, 8-92, 1929	16

Digitized by Google

# of Current Passenger Cars

Quarts of Anti-Freeze Required

(With Specific Gravity of Solutions)

TEMPERATURE EXPECTED (FAHR.)

	20°ABOVE		10°ABOVE			ZERO			10°BELOW			20°BELOW			30°BELOW		
Cooling System Capacity in Qts.	ALCOHOL Sp. Gr. .978	E. GLYCOL Sp. Gr. 1.030	ALCOHOL Sp. Gr. .9700	GLYCERINE Sp. Gr. 1.080	E. GLYCOL Sp. Gr. 1.040	ALCOHOL Sp. Gr. .9600	GLYCERINE Sp. Gr. 1.108	E. GLYCOL Sp. Gr. 1.050	ALCOHOL Sp. Gr. .9500	GLYCERINE Sp. Gr. 1.120	E. GLYCOL Sp. Gr. 1.060	ALCOHOL Sp. Gr. .9400	GLYCERINE Sp. Gr. 1.130	E. GLYCOL Sp. Gr. 1.065	ALCOHOL Sp. Gr. .9200	GLYCERINE Sp. Gr. 1.144	E. GLYCOL Sp. Gr. 1.070
6	1¼	1	1¾	3	1½	2½	4	2¼	2¾	4½	2½	3	4¾	2¾	3¾	5½	3
7	1½	1¼	2¼	3½	1¾	2¾	4½	2½	3½	5¼	3	3½	5½	3¼	4¼	6½	3½
8	1½	1½	2½	4	2	3¼	5½	2¾	4	6	3¼	4	6½	3½	5	7¼	4
9	1¾	1¾	2¾	4½	2¼	3½	6	3	4½	7	3½	4½	7¼	4	5½	8	4½
10	2	1¾	3	5	2½	4	6½	3½	4¾	7½	4	5½	8	4½	6	9	5
11	2¼	2	3½	5½	2¾	4½	7¼	3¾	5¼	8½	4½	5¾	9	5	6½	10	5½
12	2½	2¼	3¾	6	3	4¾	7¾	4¼	5½	9	4¾	6½	9½	5½	7½	11	6
13	2½	2½	4	6½	3¾	5¼	8½	4½	6	10	5¼	7	10½	6	8½	11½	6½
14	2¾	2½	4¼	7	3½	5½	9	5¼	6½	10½	5½	7½	11	6½	9	12½	7
15	3	2¾	4½	7½	3¾	6	9¾	5½	7	11½	6	8	12	6¾	9½	13½	7½
16	3¼	2¾	4¾	8	4	6½	10½	5¾	7½	12	6½	8½	13	7¼	10	14½	8
17	3½	3	5¼	8½	4¼	6¾	11	6	8	13	7	9	13½	7½	10½	15½	8½
18	3¾	3¼	5½	9	4½	7¼	11¾	6¼	8½	13½	7¼	9½	14½	8	11	16	9
19	4	3½	5¾	9½	4¾	7½	12½	6½	9	14½	7½	10	15	8½	11½	17	9½
20	4	3½	6	10	5	8	13	7	9½	15	8	10½	16	9	12	18	10
21	4¼	3¾	6½	10½	5¼	8½	13½	7½	10	16	8½	11	17	9½	13	19	10½
22	4½	4	6¾	11	5½	8¾	14½	7¾	10½	16½	8¾	11½	17½	10	13½	20	11
23	4½	4¼	7	11½	5¾	9¼	15	8	11	17½	9¼	12	18½	10½	14	21	11½
24	4¾	4¼	7¼	12	6	9½	15½	8½	11¼	18	9½	12½	19	10¾	14½	21½	12
25	5	4½	7½	12½	6¼	10	16½	8¾	11½	19	10	13	20	11¼	15	22½	12½
26	5¼	4¾	7¾	13	6½	10½	17	9	12	19½	10½	13½	21	11¾	16	23½	13
27	5½	5	8¼	13½	6¾	11	17½	9½	12½	20	11	14	22	12	16½	24½	13½
28	5¾	5	8½	14	7	11¼	18¼	9¾	13	21	11¼	14½	22½	12½	17	25	14
29	5¾	5¼	8¾	14½	7¼	11¾	19	10	13½	22	11½	15	23½	13	18	26	14½
30	6	5½	9	15	7½	12	19½	10½	14	22½	12	15½	24	13½	18½	27	15
31	6¼	5¾	9½	15½	7¾	12½	20	10¾	14½	23½	12½	16	25	14	19	28	15½
32	6½	5¾	9¾	16	8	13	21	11¼	15	24	13	16½	25	14½	19½	29	16

To determine the amount of anti-freeze required for any car, find the cooling system capacity of the car in question in the list opposite. Then, by selecting the corresponding figure in the first column above, the amount of any anti-freeze for the temperature anticipated may be found by following the column across the page.

Digitized by Google

Orphan Car or Truck Parts Sources

Where Parts Can Be Obtained for Repairing Orphan Vehicles

HOW TO USE THIS INFORMATION

1. Locate your orphan car in the first alphabetically-arranged list below.
2. Note the numbers following the name of your car. They correspond with numbers preceding names of sources in the list immediately following.
3. An asterisk (*) in front of a number means an original source of supply—one that has taken over the manufacturer's patterns, blueprints, etc., or stock on hand.
4. Letters following a number indicate that only certain parts are handled by that source: ep—Engine Parts; fsg—Flywheel Starter Gears; rag—Rear Axle Gears.

LIST OF ORPHAN CARS WITH KEY TO PARTS SOURCES

Abbreviations: ep—Engine Parts fsg—Flywheel Starter Gears rag—Rear Axle Gears

ACE—45, 5 ep, 6 rag & fsg.
ALL AMERICAN TRUCK—*1, 24, 45.
ALLEN—7, *24, 25, 6 rag & fsg.
ALTER—*2, 5 ep.
AMERICAN—*2, 7, 24, 5 ep, 6 rag & fsg.
ANDERSON—24, 25, 5 ep, 6 rag & fsg.
APPERSON—*3, 6 rag & fsg.
ATTERBURY TRUCK—48.
BARLEY—37, 6 rag & fsg.
BAY STATE—7, 45, 5 ep, 6 rag & fsg.
BRINTON—24.
BRISCOE—7, *13, 28, 45, 46, 48, 5 ep, 6 rag & fsg.
C. T. ELECTRIC—47.
CHALMERS—*8, 5 ep.
CHANDLER—*17, *21.
CLEVELAND—*17, *21.
COLE—44, 45, 5 ep.
COLUMBIA—*9, 37, 45, 5 ep.
COMET—7, 45, 5 ep.
COURIER—5 ep.
CROW-ELKHART—7, *10, 24, 45, 46, 5 ep.
DANIELS—*24, 45, 5 ep.
DETROIT ELECTRIC—28.
DETROITER—24, 45, 5 ep.
DIXIE FLYER—24, 45, 5 ep.
DORRIS—45.
DORT—*12, 28, 44, 5 ep.
EARL—7, *13, 28, 45, 48, 5 ep.
ECONOMY—5 ep.
ELGIN—7, *14, 24, 45, 46, 5 ep.
ELKHART—45, 5 ep.
EMPIRE—5 ep.
FALCON-KNIGHT—51.
FLANDERS—24.
FLINT—*16, 27, 44.
G. V. ELECTRIC TRUCK—47.
GRANT—7, *18, 24, 45, 46, 48, 5 ep.
GRAY—*2, *19.
H.C.S.—*2, 5 ep.
HALLADAY—5 ep.
HATFIELD—24, 45.
HAYNES—20, 44, 45, 5 ep.
HOLLIER—45.
HUDFORD TRUCK UNIT—*24, 45.
INTER-STATE—45, 46, 5 ep.
JACKSON—7, *22, 37, 45, 46, 5 ep, 6 rag & fsg.
JEFFERY—45, 5 ep, 6 rag.
KING—28, 45.
KREBS TRUCK—24.
LAFAYETTE—28, 31.
LEXINGTON—*25, 28, 44.
LIBERTY—*26, 45, 46.
LOZIER—45.
MAIBOHM—7, 24, 45, 46, 5 ep.
MARION—*2.
MARION-HANDLEY—5 ep.
MASON—*33, 6 fsg.
MAXWELL—*8.
MERCER—45, 6 fsg.
METEOR—5 ep.
MITCHELL—*30, 44, 45, 5 ep.
MOLINE-KNIGHT—*23.
MONROE—*2, 45, 5 ep.
MURRAY—45.
NATIONAL—28, *32, 45, 5 ep.
NOMA—5 ep.
PARTIN-PALMER—5 ep.
PATERSON—*34, 5 ep.
PILOT—45, 5 ep.
PREMIER—*2, 45, 48, 5 ep.
R & V KNIGHT—*23, 6 fsg.
RAINIER—24.
RAUCH & LANG—*28.
REGAL—24, 45, 5 ep.
RELIANCE TRUCK—4.
RICKENBACKER—27, 36, 44.
RIKER—*24.
ROLLIN—38.
ROSS—45.
RUGGLES TRUCK—*39.
SAMSON TRUCK—40, 45.
SAXON—24, 45, 5 ep.
SCRIPPS-BOOTH—7, 25, 45, 5 ep.
SENECA—23, 6 rag & fsg.
SHERIDAN—*33, 45, 5 ep, 6 rag.
SIGNAL TRUCK—*24.
SMITH FORM A TRUCK—24, *35, 45.
STANDARD—24, *41, 45, 5 ep.
STANLEY STEAMER—11.
STEARNS-KNIGHT—42.
STEPHENS—24, *43, 45, 5 ep, 6 rag
STERLING—5 ep.
STEVENS-DURYEA—*28, 6 fsg.
TEMPLAR—28, 45, 5 ep, 6 rag & fsg.
TONFORD TRUCK UNIT—45.
TRANSPORT TRUCK—*24.
TRUCKFORD UNIT—45.
U. S. TRUCKS—43a.
UNION TRUCK UNIT—45.
VELIE—*15, 6 rag & fsg.
VIM TRUCK—*24.
WESTCOTT—45, *49, 6 rag & fsg.
WILLS SAINTE CLAIRE—27, 28, 44, *50, 6 rag & fsg.
WINTHER—45, 6 rag & fsg.
WINTON—27, 44, 45, *52, 5 ep, 6 rag & fsg.
WOLVERINE—*24.

INDEX OF CONCERNS MAKING PARTS FOR ORPHAN CARS LISTED ABOVE

1. All-American Truck Service Co., Flint, Mich.
2. American Motor Parts Co., Washington Ave. & Geisendorff St., Indianapolis, Ind.
3. Apperson Automobile Co., Kokomo, Ind.
4. Appleton Motor Truck Co., 924 W. Spencer St., Appleton, Wis.
5. Arrow Head Steel Products Co., 1101 Stinson Blvd., Minneapolis, Minn.
6. Automotive Gear Works, Eighth & S. O Sts., Richmond, Ind.
7. Autoparts Co., 705 Beacon St., Boston, Mass.
8. Chrysler Sales Corp., Service Parts Dept., Dayton, Ohio.
9. Columbia Motors Co., Flint, Mich.
10. Crow-Elkhart Motor Car Co., Flint, Mich.
11. Cruban Machine & Steel Corp., 54 Varick St., New York, N. Y.
12. Dort Motors, Inc., Flint, Mich.
13. Earl Motors Mfg. Service Co., Flint, Mich.
14. Elgin Motor Car Service Corp., Flint, Mich.
15. Falls Motor Corp., Flint, Mich.
16. Flint Motor Service Co., Flint, Mich.
17. General Parts Corp., 2505 Bellevue Ave., Detroit, Mich.
18. Grant Motor Service Co., Flint, Mich.
19. Gray Engineering Co., 2505 Bellevue Ave., Detroit, Mich.
20. Haynes Automobile Co., 1142 S. Main St., Kokomo, Ind.
21. Hupp Motor Car Co., Cleveland, Ohio.
22. Jackson Auto Service Co., Flint, Mich.
23. Knight Auto Parts Co., 917 Fifth Ave., East Moline, Ill.
24. Levene Motor Co., 2200 Diamond St., Philadelphia, Pa.
25. Lexington Motor Co., Kokomo, Ind.
26. Liberty Motor Car Co., Flint, Mich.
27. Madson & Richards, 1674 Pacific Ave., San Francisco, Cal.
28. Magnetic Auto Parts Co., Fifth Ave. & 142nd St., New York, N. Y.
29. Mason Motor Truck Co., Flint, Mich.
30. Mitchell Motor Car Co., 725 Louisa St., Flint, Mich.
31. Nash Motors Co., Racine Div., Packard Ave., Racine, Wis.
32. National Motor Service Co., Kokomo, Ind.
33. Olds Motor Works, Division St., Lansing, Mich.
34. Paterson Motor Car Co., Flint, Mich.
35. Perfection Brake Co., 2426 Spring Grove Ave., Cincinnati, Ohio.
36. Rickenbacker Motor Co., 2505 Bellevue Ave., Detroit, Mich.
37. Roamer Consolidated Corp., Kalamazoo, Mich.
38. Rollin Motors Service Co., E. 193rd St. & Euclid Ave., Cleveland, Ohio.
39. Ruggles Motor Truck Co., Flint, Mich.
40. Samson Tractor Co., Janesville, Wis.
41. Standard Motor Car Co., Flint, Mich.
42. Stearns Knight Corp., Lakeview Rd. at Euclid Ave., Cleveland, Ohio.
43. Stephens Service Co., Freeport, Ill.
43a. Stewart Iron Works Co. (U. S. Truck Service Div.), 1700 Madison Ave., Covington, Ky.
44. United Automobile Specialists, Inc., 801 W. Washington St., Los Angeles, Cal.
45. United Motive Parts Co., 302 W. 53rd St., New York, N. Y.
46. United Parts Co., 121 N. High St., Muncie, Ind.
47. Walker Vehicle Co., 101 W. 87th St., Chicago, Ill.
48. Weske, Ad., 830 38th Ave., San Francisco, Cal.
49. Westcott Motor Car Co., Kokomo, Ind.
50. Wills Sainte Claire Co., 2505 Bellevue Ave., Detroit, Mich.
51. Willys-Overland, Inc., Walcott Blvd., Toledo, Ohio.
52. Winton Service, Inc., 1143 S. Main St., Kokomo, Ind.

Digitized by Google

BUYERS' GUIDE

Classified Directory of Important Sources of Supply for the Trade, Arranged Alphabetically by Product

Except for advertisers, whose complete names and addresses are shown, all companies are listed by numbers.

For names and addresses which these numbers represent see numerical-alphabetical index to all manufacturers, starting page 400.

For TRADE NAMES see alphabetical list, starting page 420.

NOTE: This directory of supplies includes only those selling to the trade. It does not include many well-known manufacturers of automobile products who sell only to other manufacturers, as for original equipment, etc.

ABRASIVES
(Bulk material used for tool sharpening, surface grinding, etc.; see also Cloth, Abrasive; Dressers, Emery Wheel; Paper, Emery & Sand; Wheels, Grinding)
11 12 152 1031 2336 3267 4761 6600 6827

Accelerometers
See Instruments, Brake Testing

Accessories, Buyers of Surplus
See Parts and Accessories, Buyers of Surplus

Accounting Books
See Books and Forms, Accounting

Accounting Systems
See Systems, Accounting

Acetylene Gas
See Gas, Acetylene (In Tanks)

Acid, Battery
See Electrolyte, Storage Battery

Acid, Soldering
See Flux, Soldering

ADAPTERS, Battery Post
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa.—*See adv. p.* 142

ADAPTERS, Lamp (Electric)
(For converting gas or oil lamps into electric lamps)
5179 5604

Addressing Machines
See Machines, Addressing

ADJUSTERS, Brake and Reverse Band for Fords
2795

ADJUSTERS, Coach Seat
720 4677 6218

ADJUSTERS, Valve Stem, for Fords
1842

Aligning Gages, Running Gear
See Gages, Wheel and Axle Aligning

Aligning Jigs, Camshaft
See Reamers and Jigs, Camshaft Aligning, for Fords

Aligning Reamers, Camshaft for Fords
See Reamers and Jigs, Camshaft Aligning, for Fords

ALUMINUM, Sheet, Rod and Ingot
120 2044 2419 4222A

Ambulances, Motor
See Automobiles (Ambulances)

Ambulances, Wrecking
See Trucks, Casters and Spare Wheels, Wrecking

AMMETERS, Instrument Board
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. "Tiffany"—*See adv. p.* 251
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y.—*See adv. p.* 65
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet Cars)—*See adv. p.* 118
6 1257 2818 3561 3992 5563 5687 6336 6667

Anti-Freeze, Radiator
See Compounds, Anti-Freezing

ANTI-RATTLERS, Brake Rod
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59

ANTI-RATTLERS, Brake Rod Clevis, for Fords
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
2053 2634 3118 3537 5051 6733

ANTI-RATTLERS, Door
(Rubber or spring bumpers to prevent rattling of car doors)
Auto Door Chek Specialty Co., 482 Mott Ave., New York, N. Y. "C & L"—*Illustrated, p.* 77
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration, description & prices, p.* 59
203 297 313A 346 1178 1580 1829 1840 2053 2634 3324 3537 3892 3903 3957 5627 6627

ANTI-RATTLERS, Hood
Continental Rubber Works, 1902 Liberty St., Erie, Pa.—*See adv. p.* 134
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
1274 3537

Anti-Rattlers, Mud Guard
See Braces, Mud Guard or Fender

ANTI-RATTLERS, Radius Rod
295

ANTI-RATTLERS, Radius Rod, for Fords
224 1842

ANTI-RATTLERS, Steering Rod
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59
295 3537

ANTI-RATTLERS, Window
35 295 346 1829 1840 1842 2412 2604 3120 3805 3903 4240 4327 5627 6627

Anti-Shimmy Devices
See Checks, Steering Gear

Anti-Squeak, Body
See Lining, Body or Frame

ANVILS, Rim
6611

APRONS, Acid Resisting
Gates Rubber Co., 999 S. Broadway, Denver, Colo.—*See adv. p.* 86
559 644 1318 1829 2324 4525 5597 5617 6344

APRONS, Wash
291 644 1035 1192 1318 1573 1905 2415 2773 5617 6133 6344

Arbors, Expanding
See Mandrels, Expanding

ARMATURES
Armature Co., 7500 Stanton Ave., Cleveland, Ohio. "Ar-Nu"—*Illustrated, p.* 24
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118
241 242 1051 1242 2133 5513 5563 6324A 6354

Arm Rests
See Rests, Arm

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

ARMS, Breaker
Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill.—*See adv. p.* 46
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet Cars)—*See adv. p.* 118
4317 5550 5563

Ash Receivers or Trays
See Receptacles, Ash

Asphalt Distributors
See Automobiles (Oil, Tar and Asphalt Distributors)

Assist Cords
See Cords, Assist

ATTACHMENTS, Lathe Milling
4726 4779

ATTACHMENTS, Six Wheel, for Trucks
1637 1885 3521A 4602 5195
5585 5828 6203A 6351 6377

ATTACHMENTS, Snow, for Fords
(Runners and Traction Treads)
5616

AUTOMOBILES (Ambulances)
1340 3300 5442 6691

AUTOMOBILES (Buses)
8 141 363 632a 636a
731 1142 1202 1293 1614
1630 2011 2023 2040 2351
2433 2476 3029 3048 3282
3300 3428 3753 3968 4244
5081 5085 5402a 5434 5498
5747 6225 6376 6562 6572
6691

AUTOMOBILES, Commercial (Electric)
3428 4500 6562 6574

AUTOMOBILES, Commercial (Gasoline)
Stewart Motor Corp., 93 Dewey Ave., Buffalo, N. Y.—*Illustration, specifications & prices, p.* 22
Willys-Overland, Inc., Walcott Blvd., Toledo, Ohio. "Willys," "Whippet," "Willys-Knight"—*Distributors, p.* 20
8 28 245 294 309
363 632A 636A 707 731
1073 1110 1163 1194 1202
1216 1293 1346 1558a 1593
1609A 1611 1614 1630 1657
1665 1808 1876A 2011 2023
2040 2102 2119 2136 2351
2406 2423 2430 2431 2433
2440A 2476 2667 2679 2731
2824 2827 3029 3043 3048
3259 3282 3288 3300 3307
3409a 3436 3458 3511 3588
3705 3753 3938 3968 4244
4273a 4290 4325 4552 4627
4640 5061 5081 5085 5099
5141 5402a 5432 5434 5498
5688 5713 5747 5760 5778
6376 6572 6691 6705 6738
6742 6748 6765 6795a

AUTOMOBILES, Delivery (Frequent Stop)
1607 4609 5736

AUTOMOBILES (Fire Apparatus)
8 61 85 165 703
777 2119 2612 2813 3048
4718 5149 5486 5498 6592

AUTOMOBILES (Hearses and Funeral Cars)
1340 3300 3860 5442 5791

AUTOMOBILES (Oil, Tar and Asphalt Distributors)
1911 3290

AUTOMOBILES, Passenger (Gasoline)
Auburn Automobile Co., S. Main St., Auburn, Ind. ("Auburn" rear drive; "Cord" front drive)—*Description & prices, p.* 34
Buick Motor Co., Flint, Mich. "Buick"—*Description & prices, p.* 32
Chrysler Sales Corp., 12200 E. Jefferson Ave., Detroit, Mich. "Chrysler," "Plymouth"—*Prices, p.* 32
Hudson Motor Car Co., 12601 E. Jefferson Ave., Detroit, Mich. "Essex," "Hudson"—*See adv. p.* 18
Imported Motors, Inc., 37-43 W. 65th St., New York, N. Y. (Imported) *See adv. p.* 34
Olds Motor Works, Olds Ave., Lansing, Mich. "Oldsmobile," "Viking"—*See adv. p.* 16
Reo Motor Car Co., 1331 S. Washington Ave., Lansing, Mich.—*See adv. p.* 33
Willys-Overland Inc., Walcott Blvd., Toledo, Ohio. "Willys," "Whippet," "Willys-Knight"—*Distributors, p.* 20
298 785 1008 1110 1138
1340 1567 1614 1641 1662
1665 1853 2102 2128 2315
2430 2824 2844 3017A 3148
3300 3504 3792 3843 3901
3938 3964 4207 4505 4535
4611 4650 4704 4732 5099
5141 5168 5791 5796 6742

AUTOMOBILES (Street Sweepers, Flushers and Sprinklers)
818 1874 1911 3290

AUTOMOBILES (Taxicabs)
707 1105 2102 2351 2844
3938 4704

AWNINGS, Fabric, Door and Window
(See also Awnings and Shades Combined; also Ventilators, Closed Car)
291 621 644 740 1192
1225 1318 1651 1905 2139
2614 2748 2758 3718 3895
5178 5191 5448 5460 5554
6133 6150 6733

AWNINGS AND SHADES COMBINED
6500 6659

Axle Parts, Repair Tools, etc.
See following heads:
Bars, Axle Straightening
Cages, Pinion Shaft Bearing
Mills, Steering Knuckle Bushing, for Fords
Nuts, Axle Shaft Adjusting
Presses, Axle
Pullers, Axle Housing for Fords
Retainers, Rear Axle Grease
Rods, Rear Axle Truss, for Fords
Shafts, Propeller and Rear Axle
Shims, Axle Caster
Spindles, Emergency Rear Axle, for Fords
Stands, Axle Repair (Rear)
Trucks, Rear Axle

AXLES, Front, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118

AXLES, Rear
(Complete Rear Axle Units; for Axle Parts—See Specific Article)
2406 4227 6157

AXLES, Rear (Two Speed)
2330 2389A

Babbitt Metal
See Metals, Bearing

Babbitt Peining Tools
See Tools, Babbitt Peining

Babbitting Jigs
See Jigs, Main Bearing and Connecting Rod Babbitting

Babbitting Machines
See Machines, Babbitting (Main Bearing and Connecting Rod)

Back Rests
See Rests, Cushion Back

BACKS, Metal Seat
1885 3872

Bags, Curtain
See Cases, Curtain

Bags, Grease
See Boots, Steering Knuckle and Joint

BAGS, Steam Tire Curing
532 2355 3894 6649

BAGS, Water Carrying
(See also Buckets, Collapsible)
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "Egyptian"—*Illustrated, p.* 148
621 740 1225 4798
5448 6679

BAGS or ROLLS, Tool
291 602 1035 1132 1318
1573 1583 1905 3027 3147
3422 4308 4628 4798 6200

Balancing Machines
See Machines, Balancing, Crankshaft; also Machines, Balancing (Wheel)

Ball Bearings
See Bearings, Ball

Ball Shims, for Fords
See Bearings, Crankshaft Thrust, for Fords

BALLS, Gear Shift Lever (Composition)
Hampden Automotive Products, Inc., 21-23 Winter St., Springfield, Mass. "Foxy-Nob"—*See adv. p.* 48
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y.—*See adv. p.* 150
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. 'Lightnin"—*Illustration, description & prices, p.* 59
582 1121 2318 2396 2628
3018 3352 3537 4731 6145
6218 6832

BALLS, Gear Shift Lever (Onyx)
2809 4334 5639 6145

BALLS, Gear Shift Lever (Wood)
584

BALLS, Steel
C & C Sales Corp., General Motors Bldg., Broadway at 57th St., New York, N. Y. "F & S" (Importers)—*Warehouse stocks, p.* 84
299 580 1000A 2656 2702
2803 4286 5025 5401 5788
6589

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

BANDS, Brake
281 1669 1905 3104 3858
4353 4702 6806

BANDS, Transmission, for Fords
1672 1905 2338 3891A 5049
6361

Bar Cutters
See Cutters, Rod and Bar

BAROMETERS, Altitude Indicating
(For dash attachment)
6109 6125

BARS, Axle Straightening
4005

BARS, Axle Straightening, for Fords
4241 6745

BARS, Boring
(See also Tools, Cylinder Reboring (Portable)
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*Illustrated, p.* 149
250 1178 3246 3512A 5058
5192 5485 6461 6730

Bars, Cored and Solid
See Metals, Bearing

BARS, Straightening
100 3256 4005 6745

BARS, Towing (One-Man Type)
(See also Ropes, Chains and Bars, Tow)
100 3256 3974 4241 4258

BATTERIES, Dry
684 729 798 2141 2342
2761 4223 5495 6300

BATTERIES, Storage
235 684 1182 1219 1222
1260 1286 1322 1868 1892
2110 2348 2366 2398 2425
2438 2770 2794 2795 2836
3451 3573 3790 3931 3951
4221 4690 4771 4773 5062
5092 5194 5495 5600 5671
5677 6300 6355 6476 6646
6726 6803

Battery Chargers, Auto
See Generators, Electric Lighting and Battery Charging (Auto)

Battery Parts, Supplies, Boxes, etc.
See Bolts; Boxes; Cables; Compounds; Connectors; Covers; Electrolyte; Handles; Jars; Locks, Cabinet and Pad; Paints; Parts, Storage Battery Repair; Separators; Shims; Terminals; Zincs

Battery Shop Equipment
See Adapters; Carriers; Chargers; Clamps, Clips; Drills and Bits; Fillers; Heaters; Hydrometers; Indicators; Instruments; Jumpers; Molds; Motor Generators; Openers; Plugs; Presses; Rheostats; Tools, Storage Battery Repair; Vises

Batting, Cotton
See Wadding and Batting, Cotton

Bearing Caps, Adjustable Center, for Fords
See Caps, Adjustable Main Bearing, for Fords

Bearing Metals
See Metals, Bearing

Bearing Repair Tools
See following heads:
Drivers, Bearing Cup
Jigs, Connecting Rod Aligning
Jigs, Main Bearing and Connecting Rod Aligning
Machines, Babbitting
Machines, Boring
Mandrels, Connecting Rod
Pullers, Bearing
Reamers, Main Bearing and Connecting Rod
Scrapers, Bearing
Tools, Bearing Shaving and Burnishing
Tools, Piston Pin and Connecting Rod Bushing Honing

BEARINGS and BUSHINGS, Bronze-Backed
(See also Bearings and Bushings, Die Cast (Babbitt, Etc.); also Bushings, Bronze; for bearing or bushing metal—See Metals, Bearing)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich.—*Illustration & warehouses, p.* 207
Johnson Bronze Co., S. Mill St., New Castle, Pa.—*Illustration & warehouses, p.* 84
McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo.—*See adv. p.* 113
764 790 2039 2853 3129
3728 3911 4605 5210

BEARINGS and BUSHINGS, Die Cast (Babbitt, etc.)
(See also Bearings and Bushings, Bronze-backed; for bearing or bushing metal—See Metals, Bearing)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich.—*Illustration & warehouses, p.* 207
McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo.—*See adv. p.* 113
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, O. (For Fords & Chevrolet cars)—*See adv. p.* 118
2039 2853 3728 3911 3975
4605 5563

BEARINGS, Ball
(For bearing parts—See Balls, Steel; also Cups and Cones, Ball; also Retainers, Ball)
C & C Sales Corp., General Motors Bldg., Broadway at 57th St., New York, N. Y. "F & S" (Importers).—*Illustration & warehouse stocks, p.* 84
Fafnir Bearing Co., New Britain, Conn.—*Illustration & distributors, p.* 223
Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y.—*Illustration & warehouse stocks, p.* 229
New Departure Mfg. Co., 269 N. Main St., Bristol, Conn.—*Illustration, description & distributors, p.* 81
Norma-Hoffmann Bearings Corp., Stamford, Conn.—*Illustration & specifications, p.* 225
R B F Ball Bearing Co., 27 W. 60th St., New York, N. Y. (Importers)—*Illustrated, p.* 82
SKF Industries, Inc., 40 E. 34th St., New York, N. Y. "Hess-Bright," "Skayeff"—*Distributors, p.* 227
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Torrington Co., 56 Field St., Torrington, Conn.—*Illustrated, p.* 82
60 299 341 535 580
1000A 2010 2034 2480 2803
3272 4286 4312 4335 5025
5026 5130 5400 5401 5403
5548 5563 5683 5695A 5786
6177 6634

BEARINGS, Ball (Reground)
60 4604 5400

BEARINGS, Ball (Surplus and Obsolete Stocks)
(Advertisers in this publication only)
Keystone Sales Corp., 1826 Sixth St., Detroit, Mich.—*See adv. p.* 166

BEARINGS, Clutch Throwout (Composition)
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*Illustrated and described, p.* 124
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. (For Chevrolet cars)—*Illustrated, p.* 119
1626 1906 2033 2619 4556
5494A 5687

BEARINGS, Crankshaft Thrust, for Fords
43 81 295 3537

Bearings, Intermediate
See Boxes, Propeller Shaft

BEARINGS, Oilless
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*See adv. p.* 124
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y.—*Illustrated, p.* 119
1626 1906 3129 4279a

BEARINGS, Rebabbitted
(Advertisers in this publication only)
Clawson & Bals, Inc., 4701-09 W. Lake St., Chicago, Ill. "C & B"—*Illustration & plants, p.* 125
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich.—*Babbitting plants, p.* 207
Monmouth Products Co., 882 E. 72nd St., Cleveland, Ohio—*Illustrated & described, p.* 19

BEARINGS, Roller
(See also Bearings, Roller (Tapered)
Roller Bearing Co. of America (Replacement Div.), Whitehead Rd., Trenton, N. J. "Heliflex—*Illustration & warehouses, p.* 231
Rollway Bearing Co., 541 Seymour St., Syracuse, N. Y.—*See adv. p.* 241
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Timken Roller Bearing Service & Sales Co., 19th St. & Dueber Ave., S. W., Canton, Ohio—*Illustrated, p.* 83
299 535 580 697 2480
2849 3272 3717 4335 4544
4757 5025 5130 5167 5170
5201 5400 5401 5548 5563
5683 6159 6644

BEARINGS, Roller (Surplus and Obsolete Stocks)
Keystone Sales Corp., 1826 Sixth St., Detroit, Mich.—*See adv. p.* 166

BEARINGS, Roller (Tapered)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p. 118*
Timken Roller Bearing Service & Sales Co., 19th St. & Dueber Ave., S. W., Canton, Ohio—*Illustrated, p.* 83
2803 4544 4757 5563 6159

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

BEDS or BERTHS, Car and Camp

Motor-Bed Mfg. Co., 616 So. Michigan Ave., Chicago, Ill.—*Illustrated & described, p. 78*

44 307 740 2408 3069
3222 3718 3895 3993 4628
4798 5773

BELLS and BUZZERS, Bus Passenger Signal

1866

Belt Fasteners

See Fasteners, Belt

Belt Lacers

See Lacers, Belt

Belt Tighteners, Automatic Fan, for Fords

See Tighteners, Automatic Fan Belt, for Fords

BELTING, Leather

Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. "Adheso," "Wetprufe"—*See adv. p. 85*

23 692 763 1027 1111
1124 1575 2441 2746 2808
3128 3408 3455 3725 4725
5046 5075 5113 5672 6657
6696 6734

BELTS, Fabric

Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p. 134*

Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p. 86*

Gates Rubber Co., 999 S. Broadway, Denver, Colo. "Vulco"—*Illustrated & described, p. 86*

Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p. 85*

Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p. 85*

Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco," "Eagle," "Iron Man"—*Illustration, description & branch offices, p. 107*

115 258 808 1274 1534
1667 1829 2026 2324 2378
2412 2416 2746 2758 2781
3903 4556 5214 5598 6344
6361

BELTS, Rubber

Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p. 85*

2746 3903

BELTS, V

Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p. 134*

Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p. 86*

Gates Rubber Co., 999 S. Broadway, Denver, Colo. "Vulco"—*Illustrated & described, p. 86*

Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. "Vee Sol," "Vee Flex"—*See adv. p. 85*

Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p. 85*

Raybestos Div of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p. 279*

Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco"—*Illustration, description & branches, p. 107*

1027 1111 1124 1274 1534
1575 1667 1829 2026 2324
2378 2412 2416 2441 2746
2781 3903 5046 5049 5075
5113 5214 6361

Benches, Electric Test

See Stands, Electric Test

BENCHES, Work

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p. 40*

142 3571 3774 4741 5635
5690 6621

BENDERS, Angle (Hand)

6565 6701

Billing Systems

See Systems, Accounting

Binders, Loose Leaf

See Books and Forms, Accounting

BINS, Parts Storage

304 622 1555 2345 3564
3571 3782B 3840 4253 4654
5728 6124

Bits, Battery Strap

See Drills and Bits, Battery Strap

BLADES, Saw (Hack)

(See also Frames, Hack Saw)

275 726 1052 1592 1604
2107 2410 2835 3905 3918
4205 4649 5029 5565 5602
5719 6142 6208 6485

Blocks, Car Extracting

See Winches and Blocks, Car Extracting

BLOCKS or HOISTS, Chain

(For portable cranes—See Cranes, Portable)

American Chain Co., 929 Connecticut Ave., Bridgeport, Conn.—*See adv. p. 40*

Columbus - McKinnon Chain Corp., Tonawanda, N. Y. "Blue Boy"—*Illustrated, p. 152*

36 142 1070 1134 1237
2101 3546 4306 5193 5649
6778 6799

Blow Guns

See Nozzles, Air

BLOW PIPES, Brazing, Welding & Cutting

Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p. 146*

Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y. "Prest-O-Weld"—*Illustrated, p. 169*

157 4565 4708 5821 6171
6304A

Blow Torches

See Torches and Furnaces, Gasoline or Kerosene

BLUE, Mechanics'

(For use when adjusting bearings)

702 1667 2616 2661 3922
4347 4673 5120 6143 6456

BOARDS, Display (Wooden)

152 5654 5814

BOARDS, Floor or Foot

5654 5814 6172

BOARDS, Running

Corcoran Mfg. Co., Dept. 29, Section & Foraker Aves. (Norwood), Cincinnati, Ohio. "Peerless." (For Fords only; combination running board & dust shield)—*See adv. p. 126*

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet cars)—*See adv. p. 118*

209 1294 1918 3035A 3448
3872 4751 5563 5654 5814
6172 6460 6814A

BODIES, Armored

(Advertisers in this publication only)

National Steel Products Co., 1611 Crystal Ave., Kansas City, Mo.—*Illustrated, p. 35*

BODIES, Dump (Stock Models)

(Advertisers in this publication only) (Automatic, rocking, elevating, gravity and hoisting types)

National Steel Products Co., 1511 Crystal Ave., Kansas City, Mo.—*Illustrated, p. 35*

BODIES, Passenger Car (Custom Built)

(Advertisers in this publication only)

Weatherproof Body Corp., 480 Shiawassee St., Corunna, Mich.—*See adv. p. 35*

Body Hoists

See Hoists, Truck Body

Body Surfacing Machines

See Tools, Metal Finishing, Portable Electric

BOILERS, Steam Engine Cleaning

3836

Bolt and Screw Cases

See Cases, Bolt and Screw

Bolt Clippers

See Clippers, Bolt and Rivet

Bolt Extractors

See Extractors, Bolt and Screw

BOLTS, Anchor

2338A

BOLTS, Battery Hold Down

United Screw & Bolt Corp., Cleveland, Ohio, and Chicago, Ill.—*Illustrated, p. 122*

2338A 2861 6323A

BOLTS, Clip

284 774 2338A 3420 5538
5815

BOLTS, Connecting Rod

(See also Bolts and Nuts, Automatic Connecting Rod Bearing)

Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio—*Illustration & warehouses, p. 131*

Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland, Ohio—*Warehouse stocks, p. 122*

16 284 774 1173 2056
2338A 3420 4688 5213 5789
6323A

BOLTS, Coupling

Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland Ohio—*Warehouse stocks, p. 122*

Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p. 85*

774 1128 1173 2338A 2746
5538 5815 6483 6644

BOLTS, Demountable Rim

Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p. 90*

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire" —*Description & branch offices, p.* 123

284 774 1158 2338a 2858
3420 5213 6139 6568 6677

Bolts, King
See Bolts, Steering Knuckle

BOLTS, Machine and Carriage

Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*See adv. p.* 124

Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire" (Also "Eagle" carriage)—*Illustration, description & branch offices, p.* 123

284 295 691 774 1095
1158 1234 1626 2338a 2669
2680 3420 4239 4254 4536
4688 5114 5156 5213 5815
6139 6172 6221

Bolts, Plow
See Bolts, Machine and Carriage

Bolts, Shackle
See Bolts, Spring Shackle

BOLTS, Special, for Fords

Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland, Ohio—*Warehouse stocks, p.* 122

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio — *See adv. p.* 118

284 1173 3104 5563 5815
6139 6677

BOLTS, Spring Center

Dorman Star Washer Co., 219 E. Eighth St., Cincinnati. Ohio.—*See adv. p.* 124

284 1081 1626 2056 2338A
2680 3420 5213 5538 5789
5815 6568

BOLTS, Spring Shackle

(Complete bolt with oil or grease cup attached)

Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland, Ohio—*Warehouse stocks, p.* 122

Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog." (For Chevrolet cars.)—*See adv. p.* 118

McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo.—*See adv. p.* 113

Monmouth Products Co., 882 E. 72nd St., Cleveland, Ohio—*See adv. p.* 19

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118

696 1158 1173 2056 2116
2338A 2619 3104 3284 3728
3954 5114 5213 5491 5563
6141 6192 6686 6806

BOLTS, Steering Knuckle

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permite-Diamond" — *Illustrated, p.* 10

McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo.—*See adv. p.* 113

Monmouth Products Co., 882 E. 72nd St., Cleveland, Ohio—*See adv. p.* 19

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118

United Screw & Bolt Corp., Cleveland, Ohio, and Chicago, Ill.—*Illustrated, p.* 122

2056 2116 2338A 2619 3284
3728 3954 4536 5114 5491
5563 6141 6192 6323A 6686
6806

Bolts, Step
See Bolts, Machine and Carriage

BOLTS, Stove and Tire

Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "Thrift-Pak" *See adv. pp.* 246 & 247

Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire"—*Illustration & branch offices, p.* 123

185 284 774 1158 1234
1292 2338A 2472 2680 2702
3420 4239 4254 4522 4688
5056 5156 5213 5815 6221

Bolts, Tie Rod
See Bolts, Steering Knuckle

BOLTS and NUTS, Automatic Connecting Rod Bearing

(See also Bolts, Connecting Rod)

Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich.—*Illustration & warehouses, p.* 207

1925 2039

BOOKS and FORMS, Accounting

(Advertisers in this publication only)

Comfort Printing Specialty Co., 107 N. Eighth St., St. Louis, Mo.—*See adv. p.* 134

St. Louis Tag Co., 217 Locust St., St. Louis, Mo.—*Illustrated, p.* 88

Unique Printed Products Co., 2224 N. 13th St., Terre Haute, Ind.—*See adv. p.* 173

BOOKS, Sales

(Advertisers in this publication only)

Comfort Printing Specialty Co., 107 N. Eighth St., St. Louis, Mo.—*See adv. p.* 134

BOOSTERS, Battery
503A

Boosters, Grease
See Drivers, Grease

BOOSTERS, Vacuum Tank
5761

BOOTHS, Spraying (Paint and Varnish)
646 1587 4603

BOOTS, Steering Knuckle and Joint

(Leather, oilcloth and fabric covers for enclosing steering connections and universal joints)

1124 1573 1829 2441 3027
3455 6821

BOOTS, Steering Knuckle, for Fords

(Leather, oilcloth and fabric covers for enclosing steering connections)

1575 2441

Boots, Tire Repair
See Patches, Tire Repair

Boots, Top
See Covers, Top

Boring Machines
See Machines, Boring, Main Bearing and Connecting Rod

Bow Clamps or Holders
See Holders, Top

Bow Sockets
See Sockets, Bow

BOWS, Side (Ornamental)
6134

BOWS, Top
1020 1319 1552 2407 3459
6145

Box Locks
See Locks, Cabinet and Pad

BOXES, Battery (Composition)

(For encasing cell jars)

59 161 2789 5117A 5207

BOXES, Battery (Metal)

(For carrying battery on running board of car)

1603 2392 3294 5725

BOXES, Battery (Metal), for Fords
2392

BOXES, Battery (Rubber)

(For encasing cell jars)

Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134

Gates Rubber Co., 999 S. Broadway, Denver, Colo.—*See adv. p.* 86

1274 1829 2324 2412

BOXES, Battery (Wood)

(For encasing cell jars)

4288A 5671 6355

BOXES, Battery (Wood)

(For carrying battery on running board of car)

2451

BOXES, Fare
4528

Boxes, Propeller Shaft
See Propeller Shaft Boxes

Boxes, Rubber Battery Cell
See Jars, Battery Cell (Rubber)

Boxes, Spare Lamp Bulb
See Cases, Lamp Bulb

BOXES, Tool (Metal)

(For tool bags—See Bags or Rolls, Tool)

114 304 518 656 1150
1247 1658 1668 2077 2392
2769 3252 3294 3571 3872
4726 5511 5725 5753 6108
6306 6814A

BOXES, Tool (Metal), for Fords

Corcoran Mfg. Co., Dept. 29, Section & Foraker Aves. (Norwood), Cincinnati, Ohio. "Peerless." — *See adv. p.* 126

1294 2392

BOXES, Tool (Wood)

(For tool bags—See Bags or Rolls, Tool)

6306

BOXES, Tote (Sheet Metal)

(Shop Boxes and Barrels)

213 1164 1555 1668 1845
2009 2362 3252 3294 3571
3782B 4248 4751 5725 6566

BOXES, Tote (Wood)
1164

Braces, Headlight
See Brackets, Headlight (Stationary)

BRACES, Mud Guard or Fender
3530 3855

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

BRACES, Mud Guard or Fender (For Model T Fords)
1905 6559 6733

BRACES, Running Board (For Model T Fords)
1905

BRACKETS, Headlight (Stationary)
1823

BRACKETS, Lamp (Side and Tail)
76 720 1603 4757 5731

BRACKETS, Mirror
Kales Stamping Co., 1669 W. Lafayette Blvd., Detroit, Mich.—*Illustrated & described, p.* 61
720 3212

Brads
See Tacks, Upholstery

Brake Band Repair Equipment
See Adjusters, Brake and Reverse Band, for Fords; Machines, Brake Relining; Tools, Brake Band

Brake Cleaning Compounds, Hydraulic
See Compounds, Hydraulic Brake Cleaning

Brake Cleaning Machines, Hydraulic
See Machines, Brake Cleaning (Portable Hydraulic)

Brake Compounds
See Dressing, Brake

Brake Drum Repair Equipment
See Drums, Brake Dummy; Gages, Brake Drum; Gages, Brake and Drum Concentricity; Lathes, Brake Drum; Machines, Grinding, Brake Drum

Brake Parts and Attachments
See Bands, Brake; Brakes, Power; Drums, Brake; Equalizers, Brake; Lining, Brake; Rope or Cable; Screws, Brake; Shoes, Brake

Brake Relining Equipment
See Clamps, Brake Relining; Cutters, Brake Lining; Machines, Grinding, Brake Lining; Machines, Brake Relining

Brake Testing Equipment
See Depressors, Brake Pedal; Instruments, Brake Testing; also Machines; also Tools

BRAKES, Air
Bendix-Westinghouse Automotive Air Brake Co. (Div. of Bendix Aviation Corp.), 5001 Center Ave., Pittsburgh, Pa.—*See Front Cover*

BRAKES, Hydraulic
Hydraulic Brake Co. (Div. of Bendix Aviation Corp.), 2843 Grand Blvd., E., Detroit, Mich. "Lockheed."—*See Front Cover*
2729 2851 6553

BRAKES, Mechanical
American Chain Co., 929 Connecticut Ave., Bridgeport, Conn. "Tru-Stop"—*See adv. p.* 40
Bendix Brake Co. (Div. of Bendix Aviation Corp.), 401 Bendix Drive, South Bend, Ind.—*See Front Cover*
138A 142 609

BRAKES, Power (Amplifying Unit Only) (Compressed Air)
Watts Morehouse Mfg. Corp., 2322 E. Michigan Ave., Jackson, Mich. "Morehouse"—*Jobbing Centers, p.* 69

BRAKES, Power (Amplifying Unit Only) (Hydraulic)
5723

BRAKES, Power (Amplifying Unit Only) (Vacuum)
Bragg-Kliesrath Corp. (Div. of Bendix Aviation Corp.), Queens Blvd. & Harold Ave., Long Island City, N. Y. "B-K"—*Distributors, Inside Back Cover; also see Front Cover*
710

BRAKES, Power (Complete With Brakes)
5761

Brazing Compounds and Flux
See Compounds, Brazing

Breaker Arms
See Arms, Breaker

Breaker Points
See Points, Contact

BREATHERS, Crank Case
(Breather cap or pipe with large filler opening to take the place of steel cap on small oil fitting hole on front end of motor)
6502

BREATHERS, Crankcase, for Fords
1906 3509 4353 5559

BROADCLOTH, Upholstery
Wiese & Co., Wm., 234 W. 56th St., New York, N. Y.—*See adv. p.* 44
725 2387 3411 6563 6710

Bronze, Bearing
See Metals, Bearing

Bronze Bushings
See Bushings, Bronze

Bronze Paints
See Paints, Aluminum and Bronze

Brush Holders, for Generators, etc.
See Parts, Starting Motor Drive

Brushes, Air
See Sprayers, Paint, Varnish and Lacquer

Brushes, Buffing, Wire
See Brushes, Rotary Wire

BRUSHES, Carbon Cleaning (Hand)
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*See adv. p.* 149
1895A 3905 5645 6461 6792

BRUSHES, Carbon Removing
(With arbors to fit electric drill chucks)
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio. "U. S." (Electric Drill)—*See adv. p.* 17
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. (Electric drill)—*See adv. p.* 149
6332 6459 6461

Brushes, Car Washing
See Washers, Automobile (Brushes); also Washers, Automobile (Fountain Brushes and Mops)

BRUSHES, File Cleaning
1148 1895A 3781 4314 4550
4694 5129 6199

BRUSHES, Floor
2721 3026 3781 3912 4550
5144 5645 6791

Brushes, Fountain
See Washers, Automobile (Fountain Brushes and Mops)

BRUSHES, Generator, Horn and Starter
(Carbon, metal and woven wire)
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO," "Red Ridge" — *See adv. p.* 243 *& Opposite Inside Back Cover*
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p.* 251
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*See adv. pp.* 246 & 247
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249
Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill.—*See adv. p.* 46
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*See adv. p.* 30
337 746 1092 1257 1827
2472 2619 3202 4317 4517
4601 5739

BRUSHES, Rotary Wire
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio. "Pilley-U. S. Cyclonic" (Sole distributors)—*See adv. p.* 17
83 655 1525 2721 3781
3905 3912 4550 4709 5129
5645 5783 6332 6459 6461
6619 6792

BRUSHES, Spark Plug
(Small wire or bristle brushes for cleaning spark plugs)
138 1040 1895A 2721 5645
6619

BRUSHES, Timer, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio — *See adv. p.* 118
5212 5563

Brushes, Wheel
See Washers, Automobile (Brushes); also Washers, Automobile (Fountain Brushes and Mops)

Brushes, Wool Dusting
See Dusters, Wool

BUCKETS, Collapsible
4798 5448

Buckets, Grease
See Lubricators, Portable, High Pressure

BUCKETS, Tank Body
3713 4784

Buffers, Electric Portable
See Drills, Grinders and Polishers, Electric Portable

Buffing Machines, Tire
See Machines, Tire Buffing (Electric)

Bulbs, Incandescent
See Lamps or Bulbs, Miniature Incandescent

BUMPER PARTS
Bumpers, Inc., 340 W. 70th St., New York, N. Y.—*See adv. p.* 89

Bumpers Shields
See Shields, Sport Bumper

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

BUMPERS, Automobile
(Front and rear)
Bumpers, Inc., 340 W. 70th St., New York, N. Y. (Distributors) — *See adv. p.* 89

113 142 639 789 1141
1603 1819 2042 2354 2694
3327 3410 3445 3794 3943
5692 5761 5772 6330 6347
6503 6582

Bumpers, Door
See Anti-Rattlers, Door

BUMPERS, Spring
(Rubber or spiral spring bumpers to prevent car frame from striking axle)
634 1146 1240 1274 1829
1909 3903 5049 6344

Bumping Hammers
See Tools, Body and Fender Repair

BURLAP
602 2157 3422

BURNERS, Acetylene Lamp
166 3293

BURNERS, Lead
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146

221 555 559 2654 3016
3213A 3891 3928A 4565 4708
4803 5419 5608 5810 5811
6171 6176 6217 6622

Burning-In Machines
See Machines, Burning-In

Burning Machines, Lead
See Burners, Lead

BURRS, Rivet
292 5765 6323a

Buses
See Automobiles (Buses)

Bushing Extractors
See Extractors, Bushing; also Saws, Bushing Removing

Bushing Removing and Replacing Tools
See Tools, Front Axle Bushing Removing and Replacing

Bushings, Babbitt-Lined Bronze-Backed
See Bearings and Bushings, Bronze-backed

Bushings for Breaker Arms
See Parts, Starting Motor Drive

BUSHINGS, Bronze
(For cored bushing bars—See Metals, Bearing; for die cast bearings—See Bearings and Bushings, Die Cast (Babbitt, etc.); for bronze-backed, babbitt-lined bearings and bushings—See Bearings and Bushings, Bronze-backed)
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permite-Diamond" — *Illustrated, p.* 10
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. (For Chevrolet cars) — *Illustrated, p.* 119
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich.—*Illustration & warehouses, p.* 207
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p.* 118
Johnson Bronze Co., S. Mill St., New Castle, Pa. — *Illustration & warehouses, p.* 84
Monmouth Products Co., 882 E. 72nd St., Cleveland, Ohio. "Steelclad" —*Described, p.* 19
Phosphor Bronze Smelting Co., 2200 Washington Ave., Philadelphia, Pa. "Elephant"—*Illustration & specifications, see Opp. Inside Front Cover*
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Chevrolet & Ford cars) — *See adv. p.* 118

121 174 285 764 790
806 1618 1906 2039 2116
2655 3104 3129 3954 4011
4215 4506 4605 4700 4782
5563 5674 6141 6192 6223
6315

Bushings, Graphite
See Bearings, Oilless

BUSHINGS, Rubber
1829 2412 3538 3903 4752

BUSHINGS, Steel
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permite-Diamond" — *Illustrated, p.* 10
McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo.—*See adv. p.* 113
Monmouth Products Co., 882 E. 72nd St., Cleveland, Ohio. "Steelclad." (Bronze lined)—*Illustrated & described, p.* 19
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118

91A 121 2116 3104 3284
3728 3954 5491 5563 6141
6192 6323A

BUTTONS, Push
(Special push buttons for use with electric horns—See also Controls, Horn)
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO"—*See adv. p.* 243 *& Opposite Inside Back Cover*
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. "Tiffany"—*See adv. p.* 251
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.—*See adv. p.* 96
Hackett Products Co., 407 Pine St., Providence, R. I. (For Chevrolet, Essex & Fords cars)—*See adv. p.* 55
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.—*See adv. p.* 63
Schwarze Electric Co., Dept. 3, Church St. at Payne Ave., Adrian, Mich.—*See adv. p.* 57

224 337 614 690 1121
1257 1844 2079 2347 2604
3002 3035A 3119 4731 5179
5476

BUTTONS, Quick Start, for Fords
(Fits over Ford starter button)
224

BUTTONS, Upholstery
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co"—*See adv. p.* 117
292 360 4271

Buyers of Surplus Parts
See Parts and Accessories, Buyers of Surplus

Buzzers, Bus Passenger Signal
See Bells and Buzzers, Bus Passenger Signals

Cabinet Locks
See Locks, Cabinet and Pad

CABINETS, Accessory
(See also Cases, Bolt and Screw)
147 304 622 656 2705
2767 3571 4654 5753 6632

CABLE, Flexible Control
2480

CABLE, Ignition, Starting and Lighting
(In bulk length on spools, rolls, etc.)
Bosch Magneto Co., Robert, 3605B Queens Blvd., Long Island City, N. Y.—*Distributors, p.* 91
Crescent Automotive Cable Co. (Crescent Braid, Inc.), 116 Elm St., Providence, R. I.—*Illustration & warehouse stocks, p.* 90
Manhattan Insulated Wire Co., 17-23 W. 60th St., New York, N. Y.—*Illustrated & described, see Inside Front Cover*
Monarch Insulated Wire Corp., 250 W. 54th St., New York, N. Y.—*Illustrated, p.* 91
Packard Electric Co., Warren, Ohio —*Illustrated, p.* 93

190 202 339 592 653
690 1321 1851 2327 2341A
2343 2390 2411 2686 3028
3771 3948 4533 4610 5163
5425 5577 5655 5687 5739
6139 6344 6681 6725

Cable Wire
See Rope or Cable, Bronze Wire; also Rope or Cable, Steel Wire

CABLES (Sets)
(Ignition and lighting assemblies made up to fit different makes of cars)
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y.—*See adv. p.* 243 *& Opposite Inside Back Cover*
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p.* 251
Crescent Automotive Cable Co., (Crescent Braid, Inc.), 116 Elm St., Providence, R. I.—*Illustration & warehous stocks, p.* 90
General Electric Co., Merchandise Dept., Bridgeport, Conn. "G-E"—*Illustration & prices, p.* 147
Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p.* 90
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*Illustrated, p.* 249
Manhattan Insulated Wire Co., 17-23 W. 60th St., New York, N. Y.—*Illustrated & described, see Inside Front Cover*
Monarch Insulated Wire Corp., 250 W. 54th St., New York, N. Y.—*Illustrated, p.* 91
Packard Electric Co., Warren, Ohio. "Packard Lac-Kard" — *Illustrated, p.* 93
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio.—*See adv. p.* 118

337 541 592 746 1214
1257 1321 2343 2411 2619
2858 3202 3771 3948 4610
5563 5687 5739 6193 6678
6681 6725

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

CABLES (Sets), for Fords

Manhattan Insulated Wire Co., 17-23 W. 60th St., New York, N. Y.—*Illustrated & described, Inside Front Cover*

Monarch Insulated Wire Corp., 250 W. 54th St., New York, N. Y.—*See adv. p.* 91

592 2411 3104 3771 3948 6725

Cables, Spark Plug

See Cables (Sets)

CABLES, Storage Battery

(Complete with terminals and cut in proper lengths to fit different makes of cars)

Crescent Automotive Cable Co., (Crescent Braid, Inc.), 116 Elm St., Providence, R. I.—*Illustration & warehouse stocks, p.* 90

K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249

Manhattan Insulated Wire Co., 17-23 W. 60th St., New York, N. Y.—*Illustrated & described, see Inside Front Cover*

Monarch Insulated Wire Corp., 250 W. 54th St., New York, N. Y.—*Illustrated p.* 91

Packard Electric Co., Warren, Ohio —*Illustrated, p.* 93

339 560 746 1219 1321 1927 2686 2861 3028 3202 3771 3948 4523 4610 4672 4785 5425 5577 5687 5739 6107 6139 6193 6561 6646 6678 6681 6725

CABS, Metal Truck

Weatherproof Body Corp., 480 Shiawassee St.. Corunna, Mich.—*Illustrated & described, p.* 35

136 252 1037 1162 1196 1517 1522 2080 2339 2357 2603 2720 2743 3251 3294 3715 3861 3908 3937 5547 5658 5668 5778 5792 6609

CABS, Wood Truck

Weatherproof Body Corp., 480 Shiawassee St., Corunna, Mich.—*Illustrated & described, p.* 35

136 252 1196 1282 1517 1522 2080 2339 2357 2603 2720 2743 3024 3069 3251 3715 3861 3908 3937 3962 5547 5570 5658 5778 6609 6618 6815

CAGES, Pinion Shaft Bearing

4662

Calcium Carbide

See Carbide, Calcium

CALIPERS and DIVIDERS

(See also Micrometers)

Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I.—*Illustration & specifications, p.* 162

752 2084 2410 3256 3559 4644 5719 6311 6730

Camp Equipment

See Beds or Berths, Car and Camp.

Camshaft Aligning Reamers, for Fords

See Reamers and Jigs, Camshaft Aligning, for Fords

CAMSHAFTS, Special

(For racing cars)

3986A 4030

Cane Seats

See Pads, Seat

Can Holders

See Holders, Oil Can

CANS, Gasoline

Brookins Mfg. Co., 770 Hawthorne St., Dayton, Ohio—*Illustrated & described, p.* 156

139 279 590 704A 734 817 1067 1231 1597 1632 1807 2362 2826 3159 3448 3727 3882 4784 6611

Cans, Measuring

See Measures, Metal

CANS, Oiling

Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "Diamond"—*See adv. p.* 148

590 600 786 1523 1632 1668 1807 3495 3806 4327 4757 6130 6566 6679

CANS, Radiator Filling

Brookins Mfg. Co., 770 Hawthorne St., Dayton, Ohio—*Illustrated & described, p.* 156

279 590 704A 734 1632 2362 2826 3448 3713 4784

CAPS, Adjustable Main Bearing, for Fords

(Adjustable center bearing cap to permit taking up end play in crankshaft)

42 1925

Caps, Crankcase Breather

See Breathers, Crankcase

CAPS, Dash Lamp

3278

CAPS, Gasoline Tank (Aluminum)

Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59

1906 2053 3104 3537 4556 5210 6145 6559 6733

CAPS, Gasoline Tank (Automatic)

Shepard & Moore, Inc., 1514 Prospect Ave., Cleveland, Ohio. "Shur-On"—*Illustration, description & prices,* 65

CAPS, Gasoline Tank (Brass)

295 3727 3992 4327 5710 6145 6626

CAPS, Gasoline Tank (Bronze)

6686

CAPS, Gasoline Tank (Steel)

134 295 1247 1819 3992 4013 5710 6559 6626

CAPS, Gasoline Tank (White Metal)

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Chevrolet & Ford cars) — *See adv. p.* 118

131 357A 3104 3992 5563 5710

CAPS, Hub

Fremont Automotive Products Co., 110 E. State St., Fremont, Ohio—*Illustration, description & prices, p.* 50

723 1095 1257 1624 2033 2138 4227 4327 4702 6458A 6642

CAPS, Radiator (Aluminum)

295 6145 6733

CAPS, Radiator (Brass)

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars) — *See adv. p.* 118

295 339 1132 2018 2396 2404 3108 3992 4327 5563 5710 6145 6626 6686

CAPS, Radiator (Bronze)

4506 6686

CAPS, Radiator (Rubber or Composition)

1829 2318

CAPS, Radiator (Steel)

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars) — *See adv. p.* 118

3992 5563 5710

CAPS, Radiator (White Metal)

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars) — See adv. *p.* 118

131 311 1294 1339 1905 2018 2053 3108 3286 3537 3992 5563 5710 6686

Caps, Tank

See Caps, Gasoline Tank

CAPS, Tire Valve Dust

Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134

Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio. "Instanton"—*Illustrated & described, p.* 73

Peck Spring Co., 68 Broad St., Plainville, Conn. — *Illustrated & described, p.* 72

Schrader's Son, A., 470 Vanderbilt Ave., Brooklyn, N. Y.—*Prices, p.* 72

22 35 1274 1602 1664 1829 2033 2795 3057 4643 5465 6615 6634

CARBIDE, Calcium

67 792 6305

Carbon Removers

See Brushes, Carbon Removing; Machines, Engine Decarbonizing; Scraper, Carbon

Carborundum Paper

See Paper, Emery and Sand

Carborundum Wheels

See Wheels, Grinding

Carburetor Choker Springs, for Fords

See Springs, Carburetor Choker, for Fords

Carburetor Controls

See Controls, Dash

Carburetor Floats

See Floats, Cork; also Floats, Metal

Carburetor Intake Silencers

See Silencer, Carburetor Intake

Carburetor Intake Strainers

See Cleaners, Air

Carburetor Regulators

See Regulators, Carburetor (Thermostatic)

CARBURETORS, Gasoline

Bendix-Stromberg Carburetor Co., Div. of Bendix Aviation Corp., Nancy & Westmoor Sts., South Bend, Ind. "Stromberg"—*See adv. Front Cover*

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Marvel Carbureter Co., 2300 St. John St., Flint, Mich.—*Illustration & distributors, p. 95*
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Chevrolet cars)—*See adv. p. 118*
611 1047 1642 1894 2783
3529 3803 4652 5461A 5563
5761 6154 6676 6753 6823

Card Cases
See Cases, Toilet, Vanity, Card and Smoking

Card Holders
See Holders, Card and Label

Cards, File
See Brushes, File Cleaning

CARPET, Coach and Motor Car
(See also Mats, Carpet)
Biltmore Mfg. Co., 1747 Central Ave., Cincinnati, Ohio.—*See adv. p. 47*
Wiese & Co., Wm., 234 W. 56th St., New York, N. Y.—*See adv. p. 44*
291 644 725 1318 1583
1646 1905 2006 2139 2418
2758 2763 2773 3411 3811
3932 5803 6469 6710

Carriers, Golf Bag
See Holders, Golf Bag

CARRIERS, Luggage
(For attaching to rear of car)
Fostoria Pressed Steel Corp., Dept. CM-2, N. Maine St., Fostoria, Ohio —*Prices & warehouse stocks, p. 101*
Watts Morehouse Mfg. Corp., 2322 E. Michigan Ave., Jackson, Mich. "Morehouse"—*Illustration & jobbing centers, p. 69*
35 539 595 1035 1667
2033 3316 3410 3526 4681
5191 6597 6626

CARRIERS, Luggage
(For attaching to running board)
Biltmore Mfg. Co., 1747 Central Ave., Cincinnati, Ohio—*See adv. p. 47*
Morton Mfg. Co., Key Dept., Broadway & Hoyt St., Muskegon Heights, Mich. "Wolverine"—*See adv. p. 164*
44 146 352 644 704A
720 765 1132 1905 2115
2384 3212 3526 3718 3772
3794 3966 3987 4227 4551
4757 4798 5191 5773 6498
6559 6733

CARRIERS, Luggage (Folding)
2384 3222 3409

CARRIERS, Parcel
(For interior of car)
6731

CARRIERS, Storage Battery
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco"—*See adv. p. 142*
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Acco"—*See adv. p. 40*
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p. 146*
35 100 142 559 3015
3537 3989 4523 4708 5425
6107 6355 6586A 6825

CARRIERS, Tire
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich. "Duplex," "Triplex." (For second spare tires)—*Illustration, description & prices, p. 68*
1842 2694 2802 3052 3150
4682 4751 5697 5757 6139
6197 6559 6677

Carriers, Trunk
See Racks, Trunk

Cases, Battery
See Boxes, Battery

CASES, Bolt and Screw
2705 2767 4284 6581 6632

Cases, Card
See Cases, Toilet, Vanity, Card and Smoking

CASES, Curtain
210 1573

CASES, Lamp Bulb
(Cases or boxes for carrying spare lamp bulbs on car)
1632 5461

CASES, Medical Emergency
3132

Cases, Screw
See Cases, Bolt and Screw

Cases, Smoking
See Cases, Toilet, Vanity, Card and Smoking

CASES, Spark Plug
(Leather or fabric cases for holding spare plugs)
4787

CASES, Toilet, Vanity, Card and Smoking
(For limousines or other closed cars)
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers)—*See adv. p. 66*
Reliance Specialty Co., Holyoke Water Co. Bldg., Rear Cabot St., Holyoke, Mass. "Hndypac"—*See adv. p. 53*
35 1121 1624 2121 3018
3103 3765 3885 3990 4321
4334 4507 4731 5094 5604
6464

Cases, Tool
See Bags or Rolls, Tool

Casing, Flexible Metallic
See Shafting, Flexible

CASTERS, for Repair Creepers
2621

CASTERS, Truck
1608 2621 3268 3429 4312
5409A 5504

Casters, Wrecking
See Trucks, Casters and Spare Wheels, Wrecking

Celluloid, Sheet
See Sheets, Transparent

CEMENT, Celluloid
(For repairing curtain lights)
1660 5413

CEMENT, Gasket
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p. 86*
Liquid Veneer Corp., 822 Liquid Veneer Bldg., Buffalo, N. Y. "Neverleak"—*Illustration & prices, p. 49*
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p. 171*

Cement, Glass Setting
See Putty, Bedding

CEMENT, Leather
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p. 171*
763 2441 5413 6734

CEMENT, Linoleum
1619 5413 6172 6456

CEMENT, Radiator Repair
(For repairing or sealing leaks in radiators)
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p. 86*
Liquid Veneer Corp., 822 Liquid Veneer Bldg., Buffalo, N. Y. "Neverleak"—*Illustration & prices, p. 49*
Puritan Soap Co., 500 Exchange St., Rochester, N. Y.—*See adv. p. 74*
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p. 171*

CEMENT, Rubber (Liquid)
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p. 171*
1829 2412 2416 2773 3247
3903 5413 6344

CEMENT, Tire Repair
(Rubber cement for repairing or patching shoes and tubes; for cement for filling cuts in shoes—See Compounds, Tire Repair)
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p. 86*
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "3 in 1," "Red X"—*See adv. p. 171*

CEMENT, Top Repair
2773 2784 5120 5413 6456

CENTERS, Lathe and Grinder
1847 2684 3986 5613 5700

CHAIN ADJUSTMENTS, Automatic or Manual
Link-Belt Co., Indianapolis, Ind.—*See adv. p. 94*

Chain Appliers
See Tools, Tire Chain Attaching

Chain Blocks
See Blocks or Hoists, Chain

Chain Cutters
See Cutters, Chain; also Cutters, Shear

Chain Drills
See Drills, Chain

Chain Drives, Front End Silent
See Chains, Timing

Chain, Driving
See Chain, Transmission or Driving

Chain Fasteners, Tire
See Fasteners, Tire Chain

Chain Hoists
See Blocks or Hoists, Chain

Chain Links
See Links, Tire Chain Repair

Chain, Silent
See Chain, Transmission or Driving

Chain Tighteners
See Tighteners, Tire Chain

CHAIN, Transmission or Driving
530 3510 6699

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

CHAINS, Sling

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Acco"—*Illustrated, p. 40*

142 1044 1237 3256 6330

CHAINS, Timing

Link-Belt Co., Indianapolis, Ind. (Silent)—*Illustrated, p. 94*

Morse Chain Co., Ithaca, N. Y. (Silent)—*Illustrated, p. 94*

Whitney Mfg. Co., 237 Hamilton St., Hartford, Conn. (Silent)—*Illustration, warehouse stocks & Chilton & manufacturers' numbers, p. 211*

530 1504 3510 3982 4665
5040 6699

Chains, Tire

See Chains or Grips, Non-Skid for Pneumatic Tires; also Chains or Grips, Non-Skid, for Solid Tires

Chains, Tire Locking

See Locks, Spare Tire and Wheel

Chains, Tow

See Ropes, Chains and Bars, Tow

CHAINS or GRIPS, Non-Skid for Pneumatic Tires

(For repair links, see Links, Tire Chain Repair)

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Weed"—*See adv. p. 40*

Chain Products Co., Cooper Ave. & Penna. R. R., Cleveland, Ohio. "Hodell"—*Illustrated, p. 41*

Cleveland Chain & Mfg. Co., Penna. R. R. & Henry Rd., Cleveland, Ohio. "Wear-Well"—*Illustrated & described, p. 38*

Columbus - McKinnon Chain Corp., Tonawanda, N. Y. "Dreadnaught"—*Illustrated, p. 152*

Gates Rubber Co., 999 S. Broadway, Denver, Col. (Rubber)—*See adv. p. 86*

Lion Chain Co., 3124 W. 51st St., Chicago, Ill. "Cub"—*Illustrated, p. 42*

St. Pierre Chain Corp., Frank St., Worcester, Mass. "Super-Grip," "Royal"—*Illustrated, p. 38*

United States Chain & Forging Co., Union Trust Bldg., Pittsburgh, Pa. "McKay" (Steel & rubber; licensees)—*Illustrated, p. 39*

142 724 1044 1077 1127
1174 1237 2324 2355 2364
3015 3040 3150 3468 3512
3526 4203 4647 4792 4806
5420 5457 6101 6330 6647
6711 6778 6787

CHAINS or GRIPS, Non-Skid for Solid Tires

(For repair links, see Links, Tire Chain Repair)

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Weed"—*See adv. p. 40*

Chain Products Co., Cooper Ave. & Penna. R. R., Cleveland, Ohio. "Hodell"—*Illustrated, p. 41*

Cleveland Chain & Mfg. Co., Penna. R. R. & Henry Rd., Cleveland, Ohio. "Trax-Yun," "Duo-Wear"—*Illustrated & described, p. 38*

Columbus - McKinnon Chain Corp., Tonawanda, N. Y. "Dreadnaught"—*Illustrated, p. 152*

Lion Chain Co., 3124 W. 51st St., Chicago, Ill. "Cub"—*Illustrated, p. 42*

United States Chain & Forging Co., Union Trust Bldg., Pittsburgh, Pa. "McKay"—*Illustrated, p. 39*

142 724 1044 1077 1174
1237 2364 3015 3040 3468
3512 4203 4647 4806 5457
6330 6647 6778

CHAINS or HOOKS, Mud Extricating

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*See adv. p. 40*

Cleveland Chain & Mfg. Co., Penna. R. R. & Henry Rd., Cleveland, Ohio. "Double Grip"—*See adv. p. 38*

Lion Chain Co., 3124 W. 51st St., Chicago, Ill. "Cub"—*See adv. p. 42*

United States Chain & Forging Co., Union Trust Bldg., Pittsburgh, Pa. "McKay Shurout"—*See adv. p. 39*

Woodworth Specialties Co., 121-25 Montgomery St., Binghamton, N. Y. "Easyon," "Handichains"—*Illustration, description, specifications & prices, p. 42*

142 350 1044 1077 1174
2694 3468 3512 3950 4792
6330 6787

Chairs, Folding

See Seats, Auxiliary

Chamois

See Sponges and Chamois

CHANNELS, Adjustable

(Steel spring, leather or fabric covered)

Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Snugger." (Sole distributors)—*Illustrated, p. 117*

CHANNELS, Felt

Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill.—*See adv. pp. 97 & 98*

2046 2047 2625 4607 6651

CHANNELS, Metal

343 521 3294

CHANNELS, Rubber

Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p. 134*

634 751 1274 1580 1591
1829 2625 2773 3903

Chargers, Battery (Auto)

See Generators, Electric Lighting and Battery Charging (Auto)

CHARGERS, Battery Service Station (Bulb Type)

(See also Chargers, Battery Service Station, Constant Potential; also Motor Generators, Battery Charging; also Rheostats)

General Electric Co., Merchandise Dept., Bridgeport, Conn. "Tungar"—*Illustration & prices, p. 147*

Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*Illustration, description & prices, p. 146*

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa. "Rectigon"—*Illustration, description & prices, p. 146*

36 100 559 665 812
1226 1860 2103 2123 2343
2409 2438 3060 3323 3890
4670 4708 5079 6193 6454
6616 6664

CHARGERS, Battery Service Station (Constant Potential)

Hobart Brothers, Box C50, Canal Locks Square, Troy, Ohio. "HB"—*Illustrated, p. 140*

100 1865 2766 3798 5190
6616

CHARGERS, Magneto Magnet

(For remagnetizing magneto magnets)

100 690 812 1226 2103
5511 6616

Charging Apparatus, Service Station

See Chargers, Battery, Service Station; Motor Generators, Battery Charging; Panels & Switchboards, Charging; Rheostats

Charging Clips

See Clips, Battery Charging

Charts, Headlight Testing

See Testers, Headlight (Chart Type)

Check Valves

See Valves, Ball Check

CHECKS, Brass, Time, Tool and Pay

2432 2643 3227 3542 3822
3869 3988 5816

CHECKS, Car Door

(See also Anti-Rattlers, Door)

Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky.—*Illustrated & described, p. 117*

360 692 1048 1580 1829
1840 2773 2860 3027 3324
5075

CHECKS, Steering Gear

(Spring, hydraulic or friction attachments for steering gear to eliminate sidesway and reduce the shock transmitted to the steering wheel by the road wheels)

Hackett Products Co., 407 Pine St., Providence, R. I.—*See adv. p. 55*

224 228 1840 2604 2671
4005

CHECKS, Steering Gear, for Fords

2033 2634

Chemicals, Metal Cleaning

See Cleaners, Metal

Chemicals, Rust Preventing and Removing

See Compounds, Rust Preventing and Removing

Chimes, Exhaust

See Horns, Exhaust

CHISELS, Cold and Cape

Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind.—*See adv. p. 160*

Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p. 163*

Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley-Atha." (Sole distributors)—*Illustrated & described, p. 149*

518 635 643 726 1148
1299 1324 1604 1921 2410
2841 3830 3918 4003 4600
4726 5035 5602 5709 5777
6208 6461 6491 6497

CHISELS, Glass Removing

4644

Choke Rod Holders for Fords

See Holders, Choke Rod, for Fords

Choker Extensions, for Fords

See Extensions, Choker, for Fords

Chucks, Air

See Connections, Tire Pump

CHUCKS, Drill

1815 2410 3101 3905 3986
4338 4755 4778 6611

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

CHUCKS, Lathe
1253A 2778 5629 6643 6702

Cigar Lighters
See Lighters, Electric Cigar

Cigarette Cases
See Cases, Toilet, Vanity Card and Smoking

CLAMPS, Battery Hold Down
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco"—*See adv. p.* 142
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146
35 559 2861 4523 4708 6107

Clamps, Body Builders
See Clamps, Woodworkers'

Clamps, Bow
See Holders, Top

CLAMPS, Brake Relining
(For holding lining tight against shoe for riveting and drilling)
1126 1929 5214

Clamps, Differential Assembly, for Fords
See Plates, Differential Assembly, for Fords

CLAMPS, Hose
(For radiator hose or tire pump tubing) (Advertisers in this publication only)
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y. "Fitzall," "Efficiency"—*Illustrated, p.* 63
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Wittek Mfg. Co., 4305-9 W. 24th Place, Chicago, Ill. "Noc-Out"—*Illustrated, p.* 88

CLAMPS, Machinists'
Armstrong Bros. Tool Co., 304 N. Francisco Ave., Chicago, Ill.—*Illustrated, p.* 159
Columbian Vise & Mfg. Co., 9017 Bessemer Ave., Cleveland, Ohio—*See adv. p.* 167
43 250 643 1148 1232 1887 2410 3461 3767 4694 4757 5719 6112 6483 6497 6660 6730

Clamps, Piston
See Vises, Piston

Clamps, Top Bow
See Holders, Top

CLAMPS, Transmission Band Assembling, for Fords
134 681 1160

CLAMPS, Welders' (Oxy-Acetylene)
2391

CLAMPS, Woodworkers'
643 1148 1232 1887 4537 4694 6112 6730 6783

CLEANERS, Air
(Device to attach to air intake of carburetors to remove sand and dust from the entering air)
6 66 1620 1651 2619 3872 4546 6154 6314 6502

Cleaners, Auto
See Soaps, Automobile; also Cleaners, Vacuum (Portable); also Cleaners, Vacuum, Stationary; also Washers, Automobile (Brushes); also Washers, Automobile (Systems)

CLEANERS, Differential and Transmission
86 346 1212 1300 2445 3151 3846 5112A 5178 5510 6604 6611

CLEANERS, Engine
(For cleaning oil and grease from engines and chassis by gasoline, kerosene, compressed air, or employing steam and cleaning compounds; for steam engine cleaners—see Boilers, Steam Engine Cleaning; also Washers, Automobile (Systems)
Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y.—*Illustration & prices, second page from Inside Back Cover*
United States Air Compressor Co., 5316 Harvard Ave., Cleveland, Ohio—*Illustrated, p.* 145
759 1207 1831 2394 2766 2792 3241 3774 4353 5173 5568 6217 6324 6745

CLEANERS, Engine (Attachments)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill.—*See adv. p.* 170
1168 1587 2641 3016 3767 5173

CLEANERS, Fabric
(Compounds for cleaning upholstery or slip covers) (Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn.—*See adv. p.* 86
Puritan Soap Co., 500 Exchange St., Rochester, N. Y.—*See adv. p.* 74

CLEANERS, Glass (Rubber)
3829 6190 6615

CLEANERS, Metal
(Advertisers in this publication only)
American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Deoxidine"—*Described, p.* 171

CLEANERS, Spark Plug
(See also Brushes, Spark Plug)
1604

Cleaners, Upholstery
See Cleaners, Fabric

CLEANERS, Vacuum (Portable)
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich. "Bean Air-Vac"—*Illustrated, p.* 21
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Star-Rite"—*See adv. p.* 96
General Electric Co., Merchandise Dept., Bridgeport, Conn. "G-E"—*Illustration & prices, p.* 147
237 525 676 719 1170 1290 1842 1917 2079 2331 2343 2646 3003 3062 3254 3765a 3856 4501 4765 6324 6350

CLEANERS, Vacuum, Stationary
(Advertisers in this publication only)
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21

CLEANERS, Windshield, Electric
(See also Heaters, Windshield, Electric)
Bosch Magneto Co., Robert, 3605B Queens Blvd., Long Island City, N. Y.—*Distributors, p.* 91
Power-Dyne Mfg. Corp., 136-38 W. 22nd St., New York, N. Y.—*Illustration & prices, p.* 75
Tot Industries of Detroit, 2270 First National Bank Bldg., Detroit, Mich—*Illustration, description & prices, p.* 54
208 611 690 1800 2631 3708 4561 4754 5774 6178

CLEANERS, Windshield (Hand and Automatic)
(For chemical cleaners or preventives—see Compounds, Glass Windshield)
Hackett Products Co., 407 Pine St., Providence, R. I.—*Illustrated & described, p.* 55
Trico Products Corp., 807 Washington St., Buffalo, N. Y.—*Illustration, description & prices, p.* 74
131 1139 1257 1500 1669 2384 2449 2604 3445 3765A 3772 3950 3957 5429 5761 6190

CLEANERS and POLISHERS, Overhead Electric (Automobile)
(Consisting of liquid containers, flexible shaft, brushes and polishers)
2670

Cleaning Compounds, Auto Body
See Cleaners, Metal; also Soaps, Automobile

Cleansers, Hydraulic Brake
See Compounds, Hydraulic Brake Cleaning

CLEATS, Fibre Wiring
1270 3067 4266 4607 6744

Clevis Pins
See Pins, Yoke

Clevises
See Yokes, Special

Clip Bolts
See Bolts, Clip

CLIPPERS, Bolt and Rivet
(Hand power)
Porter, Inc., H. K., 33 Ashland St., Everett, Mass., "New Easy," "Hypowa," "O.K."—*Illustrated, p.* 161

Clips, Battery Charging
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*Illustrated, p.* 146
339 559 2665A 2766 4012 4708 5751 6139 6355

Clips, Battery Holding Down
See Clamps, Battery Hold Down

CLIPS, Electrical Test
(For testing electrical circuits at any point without removing insulation from wire or disconnecting)
2665a 4012 6561

CLIPS, Fuse
Jefferson Electric Co., 1508 S. 15th St., Chicago, Ill. "Union"—*See adv. p.* 46

CLIPS, Spring
686 720 1081 1234 1885 6307

Clock and Mirror Combinations
See Mirror and Clock Combinations

CLOCKS, Electrically Wound
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers)—*See adv. p.* 66
Sterling Clock Co., Div. of Western Clock Co., La Salle, Ill.—*Illustration, description & prices,* 45
796 3034 4321 5740 6132 6570

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

CLOCKS, Hand Wound
New Haven Clock Co., Automobile Clock Div., 133 Hamilton St., New Haven, Conn. "Jerome," "Auto," "Thornton," "Ariel," "Arcus" — *Illustration, description & prices, Opposite Title Page*
1842 3103 3464 3566 3776 3957 4292 4692 5430A 6464 6570 6648

CLOCKS, Time Recording and Watchman's
(For time stamps—see Stamps, Time)
Simplex Time Recorder Co., 50 Time Ave., Gardner, Mass. "Telechron" —*Illustrated & described, p.* 161
3056 5575

CLOTH, Abrasive
Clover Mfg. Co., 410 Main St., Norwalk, Conn. — *Illustrated & described, p.* 172
591 1031 1198

Cloth, Emery and Sand
See Cloth, Abrasive

CLOTH, Enameled or Oiled
259 704 1235 2728 3422 5699 6179

Cloth, Leather
See Leather, Artificial or Imitation

CLOTH, Mohair
725 3422 5433

CLOTH, Rubber Coated
53 693 1045 1304 1646 1659 1829 2602 3221 3422 4734 5055 5413 6344

Cloth, Upholstery
See Cloth, Mohair; Broadcloth; Corduroys; Plush; Whipcord; Velours; Velvets

Clothing, Mechanics'
See Coveralls and Service Coats

Cloths, Dusting, Polishing and Wiping
See Wipers and Polishing Cloths

Clutch Collar Oilers, for Chevrolets
See Oilers, Chevrolet Clutch Collar

Clutch Disc Drum Pullers, for Fords
See Pullers, Clutch Disc Drum, for Fords

Clutch Discs, Fabric and Composition
See Lining, Brake (Woven)

Clutch Discs, Steel
See Discs, Clutch (Steel)

Clutch Facings
See Lining, Brake (Woven)

Clutch Leather
See Leather, Friction

Clutch Linings
See Linings, Brake (Woven)

Clutch Pilot Tools
See Tools, Clutch Pilot

Clutch Plates
See Discs, Clutch (Steel)

Clutch Shafts
See Shafts, Transmission, Clutch and Pump

Clutch Spiders
See Discs, Clutch (Composition)

Clutch Throwout Bearings
See Bearings, Clutch Throwout (Composition)

CLUTCHES, Automobile Friction
2156 2747 3141 5653

Coat Rails
See Rails, Robe or Coat

COCKS, Pet (Drain, Gasoline, Air, etc.)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet cars)—*See adv. p.* 118
1249 1261 1618 1842 3016 3502 3935 5142A 5563 6608 6663

Cocks, Reserve Fuel
See Valves, Two-Way Tank

Coil Locks
See Locks, Ignition

Coil Parts
See Parts, Magneto, Coil and Distributor

COILS, Generator Field
242 1051 2133 4304 6324A

COILS, Ignition (Non-Vibrating)
(See also Systems, Battery Ignition)
Bosch Magneto Corp., American, 3664 Main St., Springfield, Mass.—*Illustration, description & prices, pp.* 92 & 93
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. "Connecticut Yankee"—*Illustration & prices, p.* 251
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*Illustrated, pp.* 246 & 247
Jefferson Electric Co., 1508 S. 15th St., Chicago, Ill.—*See adv. p.* 46
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*Illustrated, p.* 249
Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill.—*See adv. p.* 46
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y. — *Illustrated, p.* 30
228 296 689 690 1257 1857 2472 3114 3207 3287 3768 4019 4304 4317 4340 4601 6631

COILS, Ignition (Vibrating)
Jefferson Electric Co., 1508 S. 15th St., Chicago, Ill. — *Illustration & prices, p.* 46
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
690 3114 3207 3287 4304 5563

COILS, Tube Bending (Wire)
3016

Collar Oilers, Clutch, for Chevrolets
See Oilers, Chevrolet Clutch Collar

Commutator Insulation Undercutting Machines
See Machines, Commutator Turning and Insulation Undercutting

COMMUTATORS, Electric Motor
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
1017 1864 5563 6168

COMPASSES, Automobile
(For car mounting or pocket)
1873 4328 6125

Compasses, Striping
See Tools, Striping

COMPOUNDS, Anti-Freezing
(Advertisers in this publication only)
Puritan Soap Co., 500 Exchange St., Rochester, N. Y.—*See adv. p.* 74
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p.* 171

COMPOUNDS, Battery Corrosion Preventing
1099

COMPOUNDS, Bearing Grinding
(Advertisers in this publication only)
Pep Mfg. Co., 33 W. 42d St., New York, N. Y.—*See adv. p.* 172

Compounds, Brake
See Dressing, Brake

COMPOUNDS, Brazing
222 1609 3345 4617 4678 5608

COMPOUNDS, Carbon Removing
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p.* 171
86 1138 1239 2616 3046 3922 4347 4519 5413 6113

Compounds, Cleaning
See Soaps, Automobile

COMPOUNDS, Glass Windshield
(For keeping glass clear in rain, fog or snow; for mechanical cleaners—see Cleaners, Windshield)
1667 2323 3046 3922 6143 6773

COMPOUNDS, Glazing
652 5514 5541

Compounds, Grinding
See Compounds, Valve Grinding; also Compounds, Bearing Grinding

COMPOUNDS, Hydraulic Brake Cleaning
4009

COMPOUNDS, Masking
(To prevent lacquer overspray)
1268 3921 4622A 5541

COMPOUNDS, Radiator Cleaning
(For radiator cement—see Cement, Radiator Repair)
(Advertisers in this publication only)
Christie-Couse Corp., Taos, N. Mex. "ZeroClear"—*See adv. p.* 150
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Liquid Veneer Corp., 822 Liquid Veneer Bldg., Buffalo, N. Y. "Purgo"—*Illustration & prices, p.* 49
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin." *Illustration & prices, p.* 59
Puritan Soap Co., 500 Exchange St., Rochester, N. Y.—*See adv. p.* 74
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p.* 171

Compounds, Radiator Sealing
See Cement, Radiator Repair

COMPOUNDS, Rubbing and Polishing
(Especially for use with pyroxylin painting systems)
586 1022 1660 1850 3702 3921 4622A 5514 5566 6143 6727 6780

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

COMPOUNDS, Rust Preventing and Removing

(Advertisers in this publication only)

American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Deoxidine," "Lithoform," "Peroline"—*Described, p.* 171

Compounds, Spoke Tightening

See Compounds, Wood Wheel Tightening

Compounds, Storage Battery Terminal

See Paints, Storage Battery Terminal

COMPOUNDS, Tar Removing

(For removing tar or road oils from bodies)

(Advertisers in this publication only)

Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86

Puritan Soap Co., 500 Exchange St., Rochester, N. Y.—*See adv. p.* 74

COMPOUNDS, Tire Repair

(For filling cuts in outer casings or shoes)

Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86

1667 2071 2412 2616 2773
3903 3983 5413 6160 6456

COMPOUNDS, Valve Grinding

(Advertisers in this publication only)

Clover Mfg. Co., 410 Main St., Norwalk, Conn.—*Illustration, description & prices,* 172

Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86

Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.—*Illustrated, p.* 172

Compounds, Waterproofing

See Finish, Top, Waterproofing

COMPOUNDS, Welding

(Advertisers in this publication only)

Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170

Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y. "Prest-O-Weld"—*See adv. p.* 169

Compounds, Windshield

See Compounds, Glass Windshield

COMPOUNDS, Wood Wheel Tightening

(For swelling and tightening loose spokes in wood wheels)

4558

Compression Testers

See Gages, Cylinder Compression

COMPRESSORS, Air (Automobile Driven)

(Mounted on front of service car or truck, driven from motor crankshaft through power take-off)

2394

COMPRESSORS, Air (Electric)

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40

Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21

Brunner Mfg. Co., 1800 Broad St., Utica, N. Y. — *Illustrated & described, p.* 143

Champion Pneumatic Machinery Co., 8170 S. Chicago Ave., Chicago, Ill. —*Illustrated & described, p.* 142

Curtis Pneumatic Machinery Co., 1927 Kienlen Ave., St. Louis, Mo. —*Illustrated & described, p.* 141

Hobart Brothers, Box C 50, Canal Locks Square, Troy, Ohio. "HB" —*Illustration, description & prices, p.* 140

Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y. — *Illustration, specifications & prices, Second Page from Inside Back Cover*

Quincy Compressor Co., 217 Maine St., Quincy, Ill.—*Illustration, description & service & sales offices, p.* 140

United States Air Compressor Co., 5316 Harvard Ave., Cleveland, Ohio. "Usaco," "U. S."—*Illustration & description, p.* 145

142 176 310 525 577
646 759 1086 1141 1169
1345 1527 1568 1587 2127
2394 2681 2731 2766 3033
3123 3241 3406 3513 3553
3774 3859 3910 4222 4658
4713 4775 4784 5004 5140
5510 5524 5568 6604 6612
6745

CONDENSERS, Electric

Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO," "Red Ridge" — *See adv. p.* 243 *& Opposite Inside Back Cover*

Bosch Magneto Corp., American, 3664 Main St., Springfield, Mass.—*Prices, p.* 92

Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p.* 251

Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*See adv. pp.* 246 & 247

Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p.* 118

K-E-M Mfg. C., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249

Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill. "All-In-One"—*See adv. p.* 46

P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*See adv. p.* 30

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118

228 337 689 746 1257
2472 3104 3202 3761 3768
4304 4317 4601 5513 5563
5626

CONDENSERS AND RELIEF VALVES, Radiator

311

CONDUIT, Flexible Car Wiring

(Metal and fabric conduit; see also Tubing, Flexible Metallic)

American Metal Hose Co., 67 Jewelry St., Waterbury, Conn. — *Branch offices, p.* 132

Chicago Tubing & Braiding Co., 216-24 N. Clinton St., Chicago, Ill. "Rex-Tube"—*See adv. p.* 133

International Metal Hose Co., 10109-15 Quincy Ave., Cleveland, Ohio—*Specifications, p.* 135

171 718 1133 1815 2037
2343 2723 3045 4656 5443

Cones, Ball

See Cups and Cones, Ball

Connecting Rod Bearings

See Bearings and Bushings, Bronze-backed; also Bearings and Bushings, Die Cast (Babbitt, etc.)

Connecting Rod Bolts

See Bolts, Connecting Rod

Connecting Rod Bearing Repair Tools

See following heads:

Jigs, Connecting Rod Aligning
Jigs, Main Bearing and Connecting Rod Babbitting
Machines, Babbitting
Machines, Boring
Mandrels, Connecting Rod
Pullers, Bearing
Reamers, Main Bearing and Connecting Rod
Scrapers, Bearing
Tools, Bearing Shaving and Burnishing
Tools, Piston Pin and Connecting Rod Bushing Honing

Connecting Rods

See Rods, Connecting

Connecting Rods, Rebabbitted

See Bearings, Rebabbitted

Connections, Steering

See Links, Steering

CONNECTIONS, Tire Pump

Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio — *Illustrated & described, p.* 73

346 1095 1297 1602 1801
1817 1842 1893 2415 2479
3774 5173 5178 5465 5753

Connections, Tubing

See Fittings, Tube (Copper or Brass)

Connector Drills

See Drills and Bits, Battery Strap

Connectors, Belt

See Fasteners, Belt

CONNECTORS, Dry Battery

(See also Terminals, Wire)

Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Perfection"—*See adv. p.* 96

2079 3002

CONNECTORS, Lamp (Electric)

Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p.* 71

1214 1553 1629 1804 2723
3856 4712 4735 5179 5604
5687

Connectors, Storage Battery

See Terminals, Storage Battery

Connectors, Storage Battery Repair

See Parts, Storage Battery Repair

CONNECTORS, Terminal (Storage Battery Charging)

Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*Illustrated, p.* 146

812 4708

Contact Point Cleaning Stones

See Stones, Contact Point Cleaning

Contact Point Files

See Files, Contact Point

Contact Point Synchronizers

See Synchronizers, Ignition Contact Point

Contact Points

See Points, Contact

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

CONTROLLERS, Vulcanizer Steam Pressure
(Automatic valve to regulate the flow of gas to the burner on a steam vulcanizer and to control the steam pressure)
510 532

Controls, Bus Door
See Openers, Bus Door

Controls, Carburetor
See Controls, Dash; also Regulators, Carburetor (Thermostatic)

CONTROLS, Dash
(For changing adjustment of carburetor from seat or operating choker for starting, muffler cut-out, exhaust heater, exhaust horn, ventilator, radiator shutter, etc.)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
224 268 718 749 1197
1201 1287 2074 2384 2392
3016 3957 3985 4682 5119
5720 5733 6608 6825

CONTROLS, Horn
(Inner wheel installed over steering wheel, allowing horn to be sounded at touch of thumb; see also Buttons, Push)
6822

CONVERTERS, Chassis
(For lengthening or reinforcing frame members; for six wheel units—see Attachments, Six Wheel, for Trucks)
2406 3521A 5162 6815

CONVERTERS, Chassis, for Ford and Chevrolet Cars
2000 4602 5076 5195 5828

CONVERTERS, Ignition
(High frequency, connected in series on spark plug wires)
3478

Converters, Truck
See Converters, Chassis

Conveyors, Oil
See Dispensers, Oil; also Tanks, Oil (Portable)

CORD, Service (Portable Tool)
General Electric Co., Merchandise Dept., Bridgeport, Conn. "G-E."—*Illustration & prices, p.* 147
592 653 2343 4610 6344

CORDS, Assist
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. —*See adv. p.* 48
725 2628 2860 4358 5206A

CORDUROYS, Upholstery
3411

Cored Bars
See Metals, Bearing

CORES, Radiator
Hexcel Radiator Co., 57 Erie St., Milwaukee, Wis.—*Described, p.* 126
584 2032 2089 2304 2659
2733 3402 3709 3724 5172
6187 6750

Cores, Valve
See Valves, Tire

Cork Carpet
See Linoleum

CORK, Sheet
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Fel-Pro" —*See adv. pp.* 97 & 98
251 2047 4021 4607 5115

Cost System Books
See Books and Forms, Accounting

Cotter Pins
See Pins, Cotter

COUNTERBALANCES, Crankshaft
1651

COUNTERBORES
124 756 1253A 2388 3986
4261 4263 4758 6697

COUNTERS, Store
304 622 1555 2345 2705
2767 3564 3571 3782b 5728
6228

COUPLERS, Trailer
1584 1823 2151 3503 3845
5668 6182 6685

Couplings, Belt
See Fasteners, Belt

Couplings, Compression
See Fittings, Tube (Copper or Brass)

Couplings, Generator
See Couplings, Magneto, Generator and Water Pump

COUPLINGS, Hose
International Metal Hose Co., 10109-15 Quincy Ave., Cleveland, Ohio—*Specifications, p.* 135
1842 2842 3045 4014 5173
6344

COUPLINGS, Magneto, Generator and Water Pump
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Gates Rubber Co., 999 S. Broadway, Denver, Col.—*See adv. p.* 86
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p.* 85
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249
Victor Rubber Co., Springfield, Ohio —*Described, p.* 50
228 689 690 746 1274
1603 1667 1829 1851 1889
2106 2324 2412 2746 2781
3202 4702 5687 6129 6484

Couplings, Tube
See Fittings, Tube (Copper or Brass)

COVERALLS and Service Coats
(Advertisers in this publication only)
Automotives, Inc., 30 Euclid Ave., Newark, N. J.—*See adv. p.* 47
Motor Suit Mfg. Co., 816 Central Ave., Kansas City, Mo. "Allova" —*Illustrated & described, p.* 87

Covers, Automatic Radiator
See Shutters, Automatic Radiator

COVERS, Automobile
(For covering automobiles when in storage)
Kennedy Car Liner & Bag Co., Shelbyville, Ind.—*Illustrated, p.* 62
223 291 602 621 740
1192 1225 2157 2728 3250
3422 3766 4308 4798 5052
5448 5773 6123 6639

COVERS, Coil
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
3414 3537

COVERS, Crankcase
(Metal cover lined with heat retaining material to keep crankcase oil warm over prolonged periods)
6616

COVERS, Distributor
(To prevent short circuits caused by rain and water)
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Ducksback"—*Illustrated, p.* 59
Rajah Co., Locust Ave. & Nelson St., Bloomfield, N. J.—*See adv. p.* 82
3414 3537 4707 5036

Covers, Joint
See Boots, Steering Knuckle and Joint

COVERS, Lamp
338 2157

COVERS, Louvre
(Heat retaining engine boards; see also Lining, Hood (Insulated)
3514

COVERS, Luggage Carrier
1035 1905 4308 5460

COVERS, Magneto
1124 1573 2758 3027

COVERS, Oil Hole
(Stamped or turned metal dustproof covers for oil holes)
568 696 6212

COVERS, Repairmen's
(Fabric covers designed to place over fenders, seats, doors, cowls or other parts of car to protect them from being scratched when car is being worked on)
Automotives, Inc., 30 Euclid Ave., Newark, N. J.—*See adv. p.* 47
Keep Klean Cover Co., 1048 Tyler St., St. Louis, Mo.—*See adv. p.* 44
85 142 291 338 597
602 644 652 1066 1184
1192 1573 1583 1905 2157
2758 2773 3237 4220 4615
4628 4663A 5139 5460 6133

Covers, Seat
See Covers, Slip; also Covers, Repairmen's

COVERS, Slip
Automatic Seat Cover Corp., Dept. K, 120 E. 16th St., New York, N. Y. "Auto-Matic" — *Illustrated & described, p.* 48
Automotives, Inc., 30 Euclid Ave., Newark, N. J.—*See adv. p.* 47
Biltmore Mfg. Co., 1747 Central Ave., Cincinnati, Ohio — *Illustrated & described, p.* 47
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. *Illustrated & described, p.* 48
Keep Klean Cover Co., 1048 Tyler St., St. Louis, Mo.—*Illustrated, p.* 44
223 276 291 324 338
597 644 652 1032 1035
1066 1184 1192 1318 1319
1333 1573 1666 1905 2006
2020 2418 2628 2758 2773
2860 3147 3221 3237 3514
4220 4308 4628 4663a 4787
5460 5785 5803 6123 6133
6346 6469

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

COVERS, Spark Plug
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
Rajah Co., Locust Ave. & Nelson St., Bloomfield, N. J.—*See adv. p.* 92
2412 3414 3537 5036 6344

COVERS, Spring
(See also Covers, Spring Leaf Lubricating; also Oilers, Spring)
210 602 727 3441 3724 4615

COVERS, Spring Leaf Lubricating
(Lubricant retaining covers to be applied to springs to keep them lubricated; see also Covers, Spring; also Oilers, Spring)
Jeavons Co., Clauss Bldg., 110 E. State St., Fremont, Ohio—*Illustrated & described, p.* 50
Woodworth Specialties Co., 121-25 Montgomery St., Binghamton, N. Y.—*Illustration, description & prices, p.* 42
1666 2305 2773 3112 3410 3854 6787

Covers, Starting Crank
See Holders, Starting Crank

Covers, Steering Knuckle
See Boots, Steering Knuckle and Joint

COVERS, Steering Wheel Rim
291 338 1066 2773 4615 4626 5460 6133

COVERS, Storage Battery
161 2798 5207

COVERS, Tire (Fabric)
Automotives, Inc., 30 Euclid Ave., Newark, N. J. "Ziptite," "Button-On," "Spring-On," "Spring-Button," "Elastic-Slipova"—*See adv. p.* 47
Biltmore Mfg. Co., 1747 Central Ave., Cincinnati, Ohio. "Snug-Fit"—*See adv. p.* 47
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. *See adv. p.* 48
Keep Klean Cover Co., 1048 Tyler St., St. Louis, Mo.—*Illustrated, p.* 44
97 223 291 338 644 652 1035 1066 1172 1184 1192 1200 1318 1319 1333 1573 1583 1666 1802 1905 2006 2418 2628 2758 2773 2860 3027 3237 4220 4308 4615 4628 4663a 4787 5139 5147 5460 6133 6469 6797B

COVERS, Tire (Illuminated)
45

COVERS, Tire (Metal)
Biltmore Mfg. Co., 1747 Central Ave., Cincinnati, Ohio—*See adv. p.* 47
644 1573 2042 2773 3569

COVERS, Top
(See also Enclosures, Panel Top)
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass.—*See adv. p.* 48
223 291 652 1192 1319 1583 1905 2006 2628 2758 2773 3221 3422 4308 4787 5460

Covers, Universal Joint
See Boots, Steering Knuckle and Joint

Covers, Upholstery
See Covers, Slip

Cowl Protectors
See Covers, Door, Fender, Hood, Cowl, Seat, etc.

CRANES, DRAGS and JACKS, Truck Wheel Removing
3240 3256

CRANES, Hand Traveling
1134 2649 3546 5193 5649 6695 6799 6808

CRANES, Portable (Hand Operated)
(For chain blocks or hoists—see Blocks or Hoists, Chain)
526 709 1023 1025 3256 3774 4741 5193 6611

CRANES, Truck
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. — *Illustrated, p.* 40
142 274 336 526 564 589 2649 2772 2786 3256 3309 3774 3794 3831 3833 4258 4741 5438 5557 6611 6745

Crankcase Breathers
See Breathers, Crankcase

Crankcase Covers
See Covers, Crankcase

Crankcase Draining Systems, for Pits
See Systems, Crankcase Draining Disposal

Crankcase Oil Heaters
See Heaters, Crankcase Oil

Crankcase Supports, for Fords
See Supports, Engine, for Fords

Crank Holders
See Holders, Starting Crank

Crankpin Gages
See Gages, Crankpin

Crank Ratchet Pins, for Fords
See Pins, Crank Ratchet, for Fords

Crankshaft Counterbalances
See Counterbalances, Crankshaft

Crankshaft Straightening Presses
See Presses, Straightening (Crankshaft)

Crankshaft Truing Tools
See Tools, Crankpin Truing

CRANKSHAFTS (For Ford and Chevrolet Cars)
Simmons Mfg. Co., 3405-11 Perkins & Chevrolet cars) — *See adv. p.* 118

CRANKSHAFTS, Special
(For racing cars)
2308 3896A 5461A

CRANKS, Starting
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
1885 2439 2453A 5563 5748 6141

CREEPERS, Repair
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Pioneer"—*Illustrated & described, p.* 155
352 538 704A 720 1104 1233 1259 2109 2384 2786 3116 3256 3258 3350 4241 4258 4621 5428 6554 6745

Crests, Hand Painted
See Monograms, Hand Painted

Cribs
See Hammocks, Baby

CUPS, Leather
1124 2441 2702 3151

CUPS, Oil and Grease
(Advertisers in this publication only)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars) — *See adv. p.* 118
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill.—*See adv. p.* 148

CUPS, Priming
1261 1842 3016 3502 3563 5142A 6568 6608

CUPS and CONES, Ball
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118

Curb Boxes
See Stations, Air or Water

Curtain Bags or Cases
See Cases, Curtain

Curtain Fasteners
See Fasteners, Curtain

Curtain Lights
See Lights, Curtain

Curtain Openers
See Openers, Curtain

Curtain Rollers
See Rollers, Curtain

Curtain Windows
See Lights, Curtain; also Windows, Glass Curtain

Curtains, Window
See Shades, Closed Car

Cushions, Back Rest
See Rests, Cushion Back

CUSHIONS, Seat
(Including springs and upholstery)
219 276 1319 1905 2006 2421 2773 3221 3329 4305 5803 6133 6352 6615

Cutout Pedals
See Pedals, Horn and Cutout

Cutouts, Muffler
See Valves, Cutout

CUTOUTS, Reverse Current
(For automatically connecting generator to battery when the voltage is high enough to charge battery and disconnecting it when voltage is too low)
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "Red Ridge," "AMO"—*See adv. p.* 243 *& Opposite Inside Back Cover*
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. "Tiffany"—*See adv. p.* 251
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*See adv. pp.* 246 & 247
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p.* 118
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*See adv. p.* 30
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

CUTOUTS, Reverse Current—Cont.
337 339 1257 2472 2858
3104 3202 3287 4304 4317
4340 4601 5563 5626 5655
5687

Cutter Grinders
See Machines, Grinding (Reamer and Cutter)

Cutters, Bar
See Cutters, Rod and Bar

CUTTERS, Belt
1195 1570

CUTTERS, Brake Lining
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
635 1126 1195 2338 2410
3518 4018 4338 4644 5049
5214 5567

CUTTERS, Chain
Porter, Inc., H. K., 33 Ashland St., Everett, Mass.—*Illustrated, p.* 161

Cutters, Gasket
See Cutters, Washer or Gasket

CUTTERS, Milling
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass. —*Illustrated, p.* 158
124 752 2684 3877 3986
4261 4263 4758 5044 5700
5808 6102 6312 6697

CUTTERS, Pipe
(Hand power)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill.—*See adv. p.* 170
250 253 548 3016 4649
5068 6166 6458

CUTTERS, Rod and Bar
(Hand power)
249 4346 4743 6212 6565

Cutters, Rotary
See Saws and Cutters, Rotary

CUTTERS, Shear
Porter, Inc., H. K., 33 Ashland St., Everett, Mass.—*Illustrated, p.* 161

CUTTERS, Washer and Gasket
1148 2410 2778 4549 5529
5777

Cylinder Compression Gages
See Gages, Cylinder Compression

Cylinder Gages
See Gages, Cylinder

Cylinder Heads
See Heads, Cylinder

Cylinder Hones
See Tools, Cylinder Honing

Cylinder Reamers
See Reamers and Jigs, Cylinder

Cylinder Reboring Machines
See Machines, Cylinder Reboring

Cylinder Reboring Tools
See Tools, Cylinder Reboring

Cylinder Regrinding Tools
See Tools, Cylinder Regrinding (Portable)

Cylinder Sleeves
See Sleeves, Cylinder

Decalcomania Transfers
See Transfers, Decalcomania

DECARBONIZERS, Engine
(Device which automatically feeds liquid or gas to cylinders while car is running; see also Compounds, Carbon Removing; also Machines, Engine Decarbonizing)
1028 4019

Decelerometers
See Instruments, Brake Testing

Deflators, Tire
See Tools, Tire Deflating; also Machines, Tube Deflating and Valve Removing

Deflectors, Wind
See Shields, Wing (For Open and Closed Cars)

DEPRESSORS, Brake Pedal
Muther Mfg. Co., 44 Binford St., Boston, Mass. — *Illustration & prices, p.* 154
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. "Tilden." (Pneumatic; sole distributors)—*See adv. p.* 279
577 1929 3817 4034 4353
4531 4681 5049 5133 5214

Derricks
See Cranes, Truck

DERRICKS, Transmission
(To enable one man to remove bell housing on transmission or fly wheel)
Shepard & Moore, Inc., 1514 Prospect Ave., Cleveland, Ohio. "S & M"—*Illustration, description & prices, p.* 65
718 5410 5534 5562

Die Stocks
See Stock, Die

Dies, Marking
See Stamps, Steel

Dies, Standard
See Punches and Dies, Standard

Dies, Thread Cutting
See Taps, Dies and Screw Plates

Differential Assembly Plates, for Fords
See Plates, Differential Assembly, for Fords

Differential Cleaners
See Cleaners, Differential and Transmission

Differential Repair Stands
See Stands, Transmission and Differential Repair

DIFFERENTIALS, Auto
(For individual gears—see Gears and Pinions, Metal; also Axles, Rear)
Brown-Lipe-Chapin Co., Syracuse, N. Y.—*Illustrated, p.* 103
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Warner Gear Co., Clerk & Penn Sts., Muncie, Ind.—*Illustration & warehouse stock, p.* 28
149 747 3348 4297 4665
5563 6577

DIMMERS, Glare (Rear View Mirror)
(Attachment to dim the glare of headlights from cars approaching from the rear)
4682

DIMMERS, Glare (Windshield)
(Colored glass, celluloid or steel attachment to dim the glare from approaching headlights)
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. "Tiffany" (Inside)—*See adv. p.* 251
Kinney Quick-Dim Co., 3529 Washington St., Jamaica Plain, Boston, Mass. — *Illustrated & described, p.* 66
Signal Mfg. Co., 587 Washington St., Lynn, Mass. "Lion"—*See adv. p.* 58
1257 2007 2053 2158 2796
2809 2819 3118 3291 4651
5429 5556 6185 6787

DIMMERS or DEFLECTORS, Headlight
(Cups to attach to bulbs to deflect light; also metal shutters, etc. For other dimming devices—see Reflectors, Deflecting or Dimming; Switches, Headlight Dimming (Dash); Visors, Headlight)
5604 6197

Disc Wheel Straightening Machines
See Machines, Wheel Straightening (Disc)

DISCS, Clutch (Composition)
Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco"—*Illustration, description & branch offices, p.* 107

DISCS, Clutch (Steel)
Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio—*Illustration & warehouses, p.* 131
Burgess-Dall Corp., 517 Peyton St., Geneva, Ill. "B-N." (Sole distributors)—*Branch offices, p.* 203
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y.—*Illustrated, p.* 119
Monmouth Products Co., 882 E. 72nd St., Cleveland, Ohio — *Illustrated, p.* 19
Warner Gear Co., Clerk & Penn Sts., Muncie, Ind.—*Illustration & warehouse stocks,* p. 28
16 799 800 1906 2799
3775 3954 4665 5214 5684
6577 6652

DISCS, Universal Joint
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p.* 134
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p.* 85
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
Thermoid Rubber Co., Whitehead Rd., Trenton, N. J. "Hardy"—*See adv. p.* 15
204 1124 1274 1670 1829
2412 2441 2746 2781 6129

DISCS, Wheel
4227

Dispensers, Grease
See Lubricators, Portable High Pressure

DISPENSERS, Oil
(Trays, bottles and spouts for dispensing oil in quarts; for oil tanks on wheels—see Tanks, Oil (Portable)
Brookins Mfg. Co., 770 Hawthorne St., Dayton, Ohio. "Rapid"—*Illustrated & described, p.* 156
128 304 700 734 817
2635 2826 3713 3794 4784
6465 6586 6827

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Distributor Covers
See Covers, Distributor

Distributor Parts
See Parts, Magneto, Coil and Distributor

Dividers and Calipers
See Calipers and Dividers

DOGS, Lathe
Armstrong Bros. Tool Co., 304 N. Francisco Ave., Chicago, Ill.—*Illustrated, p.* 159
250 3461 4694 5058 6660 6670 6730

Dollies, Car
See Jacks on Wheels

Dolly Blocks
See Tools, Body and Fender Repair

Dome Lights
See Lamps, Dome

DOORS, Commercial Car (Steel)
3294

DOORS, Garage
(Including fire-proof and rolling doors)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*Illustrated, p.* 101
319A 1296 3054 3134 3289 3850 4559 4753 6814

Drag Links
See Links, Steering

Drags, Truck Wheel Removing
See Cranes, Drags and Jacks, Truck Wheel Removing

Drain Plug Wrenches
See Wrenches, Drain Plug

DRESSERS, Emery Wheel
568 1128 1566 2693 4346 5700 5744 6483 6492 6660

DRESSING, Brake
243 562 565 593 1245 2616 2648 2784 3922 4673 5120 5413 5566 5707 6143

DRESSING, Leather
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
Southern Cotton Oil Co. (Paint Prod. Div.), Lathrop Ave., Savannah, Ga.—*See adv. p.* 75

DRESSING, Mohair
(Advertisers in this publication only)
Southern Cotton Oil Co. (Paint Prod. Div.), Lathrop Ave., Savannah, Ga.—*See adv. p.* 75

DRESSING, Top (Weatherproof)
(Advertisers in this publication only)
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
Liquid Veneer Corp., 822 Liquid Veneer Bldg., Buffalo, N. Y. "Neverleak"—*Illustration & prices, p.* 49
Southern Cotton Oil Co. (Paint Prod. Div.), Lathrop Ave., Savannah, Ga. "Auto Top Seal"—*Illustrated & described, p.* 75

Drill, Enameled
See Cloth, Enameled or Oiled

Drill Stands, Electric
See Stands, for Portable Electric Drills and Grinders

Drilling Machines, Bench
See Machines, Drilling, Bench

Drilling Machines, Pneumatic (Portable)
See Machines, Drilling, Pneumatic, (Portable)

Drilling Machines, Vertical
See Machines, Drilling (Vertical)

DRILLS AND BITS, Battery Strap
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*Illustrated, p.* 146
124

DRILLS, Breast
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley." (Sole distributors)—*See adv. p.* 149
1143 2410 3905 4338 5034 5676 5709 5783 6461

DRILLS, Centering
1185 3986 4758 5596 6312 6697

DRILLS, Chain
2410 3905 4338

DRILLS, Cotton
1659 2728 3422

DRILLS, GRINDERS and POLISHERS, Electric Portable
(For complete portable outfits—see Tools, Metal Finishing, Portable Electric)
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio. "U. S."—*Illustration, description, branch offices & prices, p.* 17
Van Norman Machine Tool Co., Wilbraham Ave., Springfield, Mass. "Stanley" (Sole distributors)—*Illustration & specifications, p.* 149
83 633 645 655 678 1123 1143 1161 1266 1644 2372 2410 2764 3547 3769 3905 4252 4269 4740 4760 5452 5511 5676 5708 5782 5783 5784 5833 6118 6332 6454 6459 6461 6684 6745

Drills, Portable
See Drills, Grinders and Polishers, Electric Portable; also Machines, Drilling, Pneumatic (Portable)

DRILLS, Ratchet
Armstrong Bros. Tool Co., 304 N. Francisco Ave., Chicago. Ill.—*See adv. p.* 159
250 643 1185 2410 3270 3905 3986 5777 6697

Drills, Tapping
See Machines, Drilling (Vertical)

DRILLS, Twist
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. "Mezzo," "Cle-Forge" — *Illustrated, branch offices & sizes, p.* 158
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.—*Illustrated, p.* 158
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill.—*See adv. p.* 148
124 201 569 767 1148 1185 2456 3986 4263 5700 6312 6679 6697

Drive Shaft Bearing End Mills, for Fords
See Mills, Drive Shaft Bearing End, for Fords

Drive Shafts
See Shafts, Propeller

DRIVERS, Bearing Cup
3256

DRIVERS, Grease
(Pressure developed by tap of hammer)
1212 1669 5100 5165 6108

DRIVERS, Screw (Hand)
(Advertisers in this publication only)
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "Scrog-Gripp"—*See adv. p.* 243; *also Opposite Inside Back Cover*
Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind.—*See adv. p.* 160
Peck, Stow & Wilcox Co., 217-313 Center St., Southington, Conn. "Pexto"—*See adv. p.* 160
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley Atha." (Sole distributors)—*Illustrated, p.* 149

DRIVERS, Screw (Portable Electric)
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio *See adv. p.* 17
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley Atha." (Sole distributors)—*See adv. p.* 149
633 655 1143 2764 3905 5452 5708 5783 6332 6459 6461 6766

DRIVES, Reamer
663 1503 2448 4547

DRIVES, Starter
(For automatically meshing pinion on starter motor with flywheel gear)
Eclipse Machine Co. (Div. of Bendix Aviation Corp.), Dept. 5, Elmira, N. Y. "Bendix"—*See Front Cover; also illustration & service instructions, p.* 127
1051 1832

DRIVES, Starter, for Fords
1832

DRUMS, Brake (Dummy)
(For use in adjusting brakes)
3907A

DRUMS, Brake (Iron)
4 1535 2126 2478 2843 3474

DRUMS, Brake (Pressed or Stamped Steel)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
623a 3410 3474 5563 5607

Duck, Enameled or Oiled
See Cloth, Enameled or Oiled

DUSTERS, Wool
2857 3924 6619

DYE, Top Lining
702 1922 4025 4347 4673 5566

DYNAMOMETERS, Chassis Testing
3857

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

DYNAMOMETERS, Engine Testing
1101 1596 2343 3857 6664

Dynamos, Battery Charging (Auto)
See Generators, Electric Lighting and Battery Charging (Auto); also Motor Generators, Battery Charging

ELECTROLYTE, Storage Battery
2440 3211

ELEVATORS, Automobile and Parts
2369 3054 3280 3510 5493
5555 5649 6576

Emblems
See Flags, Pennants and Emblems

Emblems, Radiator
See Monograms, Initials and Emblems, Ornamental

EMBLEMS, Tire Cover
338 1200

Emergency Cases
See Cases, Medical Emergency

Emery Cloth
See Cloth, Abrasive

Emery Paper
See Paper, Emery and Sand

Emery, Powdered
See Abrasives; also Compounds, Valve Grinding

Emery Wheel Dressers
See Dressers, Emery Wheel

Emery Wheels
See Wheels, Grinding

Enamel Paints
See Paints

Enamel Removers
See Removers, Paint, Enamel and Varnish

Enameled Cloth
See Cloth, Enameled or Oiled

ENAMELS
(See also Lacquer; also Paints)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie."—*See adv. p.* 86
Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio—*See adv. p.* 31
38 78 236 702 1022
1667 2616 2689 2751 2860
3066 3122 3922 4347 4508
4529 4673 4696 4756 5120
5541 5625 5704 5727 5750
6143 6456 6789

Enamels, Engine
See Paints, Exhaust Pipe, Muffler and Cylinder

ENCLOSURES, Panel Top
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass.—*Described, p.* 48
652 2628 5045

ENCLOSURES, Panel Top, for Ford and Chevrolet Cars
1905 2773 3332 6133

ENDS, Rod
528B 643 720 3268 6730

Ends, Yoke
See Yokes, Special

ENGINES, Automobile (Gasoline)
Continental Motors Corp., 12801 E. Jefferson Ave., Detroit, Mich. "Argyll"—*Illustrated, p.* 25
4 769 779 1272 2351
2716 3498 3567 3848 3901
5430 5742 6599 6759

EQUALIZERS, Brake
2694

EQUALIZERS, Trailer Brake
5049

Expanders, Piston Ring
See Rings, Piston Ring Expanding or Packing

EXTENSIONS, Brake Lever, for Fords
5105

EXTENSIONS, Choker, for Fords
1257 2158 5567

EXTENSIONS, Door Latch, for Fords
2053 2604

EXTENSIONS, Gear Shift Lever
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y.—*See adv. p.* 150
2018 2396 2404 2809 3018
3750 6145 6221 6686

EXTENSIONS, Pedal
2158

EXTENSIONS, Starter Button
224 620 3120 3150 5567
6218

EXTINGUISHERS, Automobile Fire
165 515 777 2164 2350
3727 4806

EXTINGUISHERS, Factory Fire
165 515 777 1597 2164
2350 3320 3727 4693 4718
4806 5407 5617

EXTRACTORS, Bolt and Screw
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. "Ezy-Out"—*Illustration & branch offices, p.* 158
1002 1185 2841

EXTRACTORS, Bushing
(See also Saws, Bushing Removing)
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
35 100 336 672 756
1253a 2723 2795 2841 3256
3276 3989 4241 4600 5035
5181 6208 6491 6503 6559

EXTRACTORS, Bushing, for Fords
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
681 1185 6208 6745

Extractors, Car
See Winches and Blocks, Car Extracting

Eye Protectors
See Goggles, Mechanics' and Welders'

Eyelets
See Grommets and Eyelets

Fabrics, Upholstery and Top
See Broadcloth; Cloth; Corduroys; Plush; Velours; Velvets

Facings, Brake
See Lining, Brake

Fan Belts
See Belts, Rubber; also Belts, Fabric; also Belts, V; also Belting, Leather

Fan Pulley Pins, For Fords
See Pins, Fan Pulley, for Fords

FANS, Electric
(For closed cars)
3313

FANS, Exhaust Drying
(For use in connection with drying room equipment)
646 778 1587 3007 3294
4269 6745

FANS, Radiator
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
2647 5563

Fare Boxes
See Boxes, Fare

Fare Registers
See Registers, Fare

FASTENERS, Belt
1195 2087 2454 2758 3780
3983 5046 5214A 5599 6586

Fasteners, Tire Chain
See Fasteners, Tire Chain

FASTENERS, Curtain
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co."—*See adv. p.* 117
United-Carr Fastener Corp., 31 Ames St., Cambridge, Mass. "Dot"—*Illustration & prices, p.* 116
360 720 1139 1192 2773
2860 3857 4271 6318

FASTENERS, Hood
295 331 1603 1823 2384
5627 6627

FASTENERS, License Tag
Bellevue Mfg. Co., Ashford Ave., Bellevue, Ohio—*See adv. p.* 70
224 595 1257 2033 2643
3561 3756B 3957 4677 4791
6559

Fasteners, Storage Battery Holding Down
See Clamps, Battery Hold Down

FASTENERS, Tire Chain
Chain Products Co., Cooper Ave. & Penna. R. R., Cleveland, Ohio—*Illustrated, p.* 41
Cleveland Chain & Mfg. Co., Penna. R. R. & Henry Rd., Cleveland, Ohio—*See adv. p.* 38
Columbus - McKinnon Chain Corp., Tonawanda, N. Y. "Blue Boy"—*Illustrated, p.* 152
1077 1174 1237

FASTENERS, Top
(Fastener or clamp to hold top to windshield)
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.—*See adv. p.* 155
295 720 1309 6783

FAUCETS, Radiator Filling
2826 3713 5173 5197

FAUCETS, Tank Body
817 3846

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Felloes, Steel
See Rims or Felloes, Steel

FELT, Polishing and Rubbing
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Fel-Pro" —*See adv. pp.* 97 & 98
47 509 717 1250 2047 4607 6651

FELT, Upholstery
(See also Hair, Upholstery; also Moss, Upholstery)
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Fel-Pro" —*See adv. pp.* 97 & 98
801 1159 1250 2047 4607 5471

Fender Braces
See Braces, Mud Guard or Fender

Fender Repair Tools
See Tools, Body and Fender Repair

Fender Shrinking Clamps
See Tools, Body and Fender Repair

FENDERS or GUARDS, Truck Radiator
1584 3263 3500 3870

FENDERS or MUD GUARDS, Metal
Corcoran Mfg. Co., Dept. 29, Section & Foraker Aves. (Norwood), Cincinnati, Ohio. "Peerless." (For Ford & Chevrolet cars)—*See adv. p.* 126
Fostoria Pressed Steel Corp., Dept. CM-2, N. Main St., Fostoria, Ohio —*Illustration & warehouse stocks, p.* 101
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
209 1233 1294 2115 3294 3448 5563 6814a

Fibre Board
See Fibre, Hard

Fibre Cleats
See Cleats, Fibre Wiring

FIBRE, Hard
(Sheets, rods and tubes)
27 258 1270 3067 4266 4607 6744

File Cleaning Brushes
See Brushes, File Cleaning

FILES, Contact Point
Tacony File & Hardware Co., 2438 N. Orianna St., Philadelphia, Pa. "Tungsto," "Taconite"—*Illustrated & described, p.* 148
339 5753 6103

Files, Spark Plug
See Cleaners, Spark Plug

FILES and RASPS
Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind.—*See adv. p.* 160
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "Triple Diamond"—*Illustrated, p.* 148
275 672 1604 1895A 1921 4314 5565 6679

FILLERS, Storage Battery
(See also Hydrometers)
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146
559 2132 2412 2623 2826 2855 2860 3537 4707 4708 5482 6125 6586A 6825

Filters, Air
See Cleaners, Air

Filters, Gasoline or Oil
See Strainers, Gasoline or Oil

Filters, Oil
See Purifiers, Oil, for Attaching to Engines; also Reclaimers or Rectifiers, Oil (Garage or Repair Shop)

FINDERS, Traffic Signal
Shepard & Moore, Inc., 1514 Prospect Ave., Cleveland, Ohio. "Moonbeam." —*Illustration, description & prices, p.* 65
4791 5534

FINISH, Top (Waterproofing)
(See also Dressing, Top (Weatherproof)
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
Puritan Soap Co., 500 Exchange St., Rochester, N. Y.—*See adv. p.* 74
1660 2602 2781 4802 5497

Fire Apparatus
See Automobiles (Fire Apparatus)

Fire Extinguishers
See Extinguishers, Automobile Fire; also Extinguishers, Factory Fire

Fire Pots
See Furnaces, Soldering

Fishing Tools, Tire Valve
See Tools, Tire Valve Fishing

Fittings, Automobile and Truck Body
See Hardware, Automobile and Truck Body; also Hardware, Convertible Cabriolet

FITTINGS, Bus
(Including all hardware and irons used in bus body construction, such as enameled pipes, stanchions, seat irons, etc.)
295 1309 1823 1866 5411 6145 6627 6783

Fittings, Curtain Opening
See Openers, Curtain

FITTINGS, Lubricating
(For guns for use with fittings—see Lubricators, Hand)
39 86 696 1141 1623 2460 5165

Fittings, Pipe
See Fittings, Tube (Copper or Brass)

FITTINGS, Tube (Copper or Brass)
(Unions, tees, ells, etc., for connecting small size brass and copper tubing)
Dole Valve Co., 1913-33 Carroll Ave., Chicago, Ill.—*Illustrated & described, p.* 63
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill.—*See adv. p.* 170
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249
Lincoln Brass Works, 2067 12th St., Detroit, Mich.—*Illustration & specifications, p.* 105
103 295 746 1095 1249 1618 1842 3202 3337 3502 3563 4011 4296 4623 5142a 5589a 6608

FITTINGS and FIXTURES, Top
(See also Bows, Top; also Fasteners, Curtain; also Irons, Slat; also Sockets, Bow)
2407 6627 6783

FLAGS, PENNANTS and EMBLEMS
(See also Ornaments, Radiator. For Flag Holders—see Holders, Flag, Pennant and Emblem)
218 295 1225 1585 1886 5679

FLAPS, Tire
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134
Gates Rubber Co., 999 S. Broadway, Denver, Colo.—*See adv. p.* 86
766 1274 1589 1829 2019 2324 2355 2412 2781 3414 3469 3903 4736 5046 6160 6344

FLASHERS, Stop Light
2337

FLASHLIGHTS or LANTERNS
684 729 798 1553 2141 2761 4223 4311

Flint Paper
See Paper, Flint

FLOATS, Cork
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
251 4021 4607 4612 5563

FLOATS, Metal
Casco Products Corp., 1333 Railroad Ave., Bridgeport, Conn.—*See adv. p.* 43
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. (For Chevrolet cars)—*Illustrated, p.* 119
Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p.* 90
1053 1906 2619 2655 2858 3016 5816

Floor Boards
See Boards, Floor or Foot

Floor Pads, Felt
See Pads, Felt Floor

Floor Scrubbing and Polishing Machines
See Machines, Floor (Electric)

FLOORING, Fireproof
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p.* 101

FLUID, Hydraulic Brake
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
1667 4801 5707 6143

FLUIDS, Priming
2616

Flux, Brazing
See Compounds, Brazing

FLUX, Soldering
(For self-fluxing solder—see Solder, Self-Fluxing)
(Advertisers in this publication only)
American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Flosol"—*Described, p.* 171

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Flux, Welding
See Compounds, Welding

Flywheel Gear Heaters
See Heaters, Flywheel Gear

Foot Boards
See Boards, Floor or Foot

Foot Rests or Rails
See Rests or Rails, Foot

Foot Warmers
See Heaters, Automobile

Footman Loops
See Loops, Brass Snap and Strap

Forms, Accounting
See Books and Forms, Accounting

FORMS, Printed
Unique Printed Products Co., 2224 N. 13th St., Terre Haute, Ind.—*See adv. p.* 173

FOUNDATIONS, Body Upholstery
263 3959 6773A

Fountain Brushes and Mops
See Washers, Automobile (Fountain Brushes and Mops)

Frame Extensions
See Converters, Chassis

Frame Padding
See Lining, Body or Frame

FRAMES, Hack Saw
(For hack saw blades—see Blades, Saw, Hack)
81 275 672 726 1324
1604 2107 2410 3201 3905
3918 5034 5719 6142 6146A
6311

FRAMES, License Plate
Franklin Die-Casting Corp., Cor. Gifford & Magnolia Sts., Syracuse, N. Y. "Aristocrat"—*Illustration, description & prices, p.* 56
Hackett Products Co., 407 Pine St., Providence, R. I.—*Illustrated & described, p.* 55
131 2129 2604 3957 4506
6643A

Freezometers
See Hydrometers

FRONTS, Store
(Glass fronts for stores and motor sales rooms)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p.* 101
3054 3228 3850

Frost Eliminators
See Heaters, Windshield; also Shields, Frost

Fuel Feed Systems
See Systems, Fuel Feed

Fuel Level Indicators
See Gages, Gasoline

Fuel Mixers
See Mixers, Economizers or Agitators and Auxiliary Air Valves

Fuel Pump Parts
See Parts, Fuel Pump

Fuel Reserve Cocks
See Valves, Two-Way Tank

Funeral Cars
See Automobiles (Hearses and Funeral Cars.)

Funnel and Crankcase Wrench Combined
2158

Funnels, Hard Rubber
Continental Rubber Works, 1902 Liberty St., Erie, Pa.—*See adv. p.* 134

FUNNELS, Metal
(For gasoline or oil)
279 590 817 1067 1523
1632 2826 3342 3448 3713
4784

Furnaces, Gasoline
See Torches and Furnaces, Gasoline or Kerosene

FURNACES, Soldering
157 221 320 626 1831
2674 2793 3131 5789 6483
6817

FURNITURE, Metal
213 622 3571 5690 5728

Fuse Clips
See Clips, Fuse

FUSES, Electric
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y.—*Illustrated, p.* 243 *& Opposite Inside Back Cover*
Bussmann Mfg. Co., University at Jefferson, St. Louis, Mo. "Buss"—*Illustration, description & prices, see adv. p.* 51
Jefferson Electric Co., 1508 S. 15th St., Chicago, Ill. "Union"—*Illustration & prices, p.* 46
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249
Killark Electric Mfg. Co., 3940 Easton Ave., St. Louis, Mo.—*Illustration & prices. p.* 51
337 816 1227 1905 2300
2343 3114 3202 3279 3296
4556 4706 6189a 6664

Gage Lamps
See Lamps, Dash or Gage

Gages, Air
See Gages, Steam and Air

Gages, Axle Aligning
See Gages, Wheel and Axle Aligning

Gages, Battery
See Hydrometers

GAGES, Brake Drum
4791

GAGES, Brake and Drum Concentricity
(See also Tools, Brake Testing)
3907A

Gages, Compression
See Gages, Cylinder Compression

GAGES, Crank Pin
200

GAGES, Cylinder
(See also Micrometers)
Ames Co., B. C., Ames St., Waltham, Mass. (Sole distributors, Automotive Maintenance Machinery Co., 816 W. Washington Blvd., Chicago, Ill.)—*Illustrated, p.* 162
169 200 2084 3256 5719

GAGES, Cylinder Compression
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y.—*See adv. p.* 150
1842 3018 3106 3452 6336

GAGES, Drill and Wire
Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I.—*Illustrated, p.* 162
752 3986 4758 5700 5719
6312

GAGES, Gasoline Auto (Dash Type)
King-Seeley Corp., 312 First St., Ann Arbor, Mich. "K-S Telegage"—*Illustrated, p.* 64
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y. "R.K.D.," "Nagel," "Neco"—*See adv. p.* 65
2305 3285 3299 3992 5154

GAGES, Gasoline Auto (Tank Type)
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y.—*See adv. p.* 65
76 1257 3992 5154

GAGES, Gasoline (Rules)
5429

GAGES, Muffler Back Pressure
Powell Muffler Co., 316 Catherine St., Utica, N. Y.—*Illustrated, p.* 112

GAGES, Oil, for Fords
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. "Tiffany"—*See adv. p.* 251
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118
224 1257 1576 1842 2051
5105 5563 6130

GAGES, Oil Level
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y.—*See adv. p.* 65
76 2305 3992 5154

GAGES, Oil Pressure
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y.—*See adv. p.* 150
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y.—*See adv. p.* 65
6 543 1257 3018 3503
3915 3992 5154 5567 5687
6336

GAGES, Piston Pin, for Fords
6745

GAGES, Plug and Ring
364 2456 2684 3986 5536
6104 6358

Gages, Pump
See Gages, Tire Pressure

Gages, Ring
See Gages, Plug and Ring

GAGES, Screw Pitch
752 2084 2410 3559 4758
5719

GAGES, Steam and Air
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y. "Pressurite"—*See adv. p.* 150
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, L. I., N. Y.—*See adv. p.* 65
3018 3774 3992 6336 6586A

GAGES, Storage Tank (Distance Reading)
King-Seeley Corp., 312 First St., Ann Arbor, Mich. "K-S Telegage"—*Illustrated & described, p.* 64
3285 3515 6604

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

GAGES, Surface
200 2410 3559 5719

Gages, Tank
See Gages, Gasoline Auto

GAGES, Thickness (Pocket)
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y.—*Illustrated, p. 243 & Opposite Inside Back Cover*
Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I.—*Illustration & specifications, p. 162*
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p. 251*
Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p. 80*
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y.—*Illustrated & described, p. 150*
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p. 249*
200 337 339 672 752
1063 1257 2084 2410 2619
2841 2858 3018 3202 3256
3559 5687 6311 6717a

GAGES, Tire Pressure
Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio—*Illustrated & described, p. 73*
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y. "Pressurite"—*Illustrated & described, p. 150*
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y.—*See adv. p. 65*
Schrader's Son, A., 470 Vanderbilt Ave., Brooklyn, N. Y.—*Prices, p. 72*
22 1602 2412 2723 3018
3241 3330 3561 3800 3992
5465 5505 5834 6336

GAGES, Wheel and Axle Aligning
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Duby-Manley"—*Illustrated, p. 40*
100 142 577 581 2835
3256 3774 3805 4005 4775
6611

GAGES, Windshield Glass
3426

Gages, Wire
See Gages, Drill and Wire

Gaps, Spark
See Intensifiers, Spark

GARAGES, Public
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*Illustrated & described, p. 101*

GAS, Acetylene (In Tanks)
(For acetylene lighting and welding)
Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y.—*Illustrated & described, pp. 168 & 169*
67 792 1244 1871 3049
3213A 4245 4527 4636 4770
5636 6304A

Gas Generators
See Generators, Acetylene, Gas

GAS, Oxygen (In Tanks)
(For oxy-acetylene welding)
Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y. "Linde"—*Illustrated & described, pp. 168 & 169*
67 792 1030 1871 3049
3213A 3507 4245 4527 4636
5636 6304A

Gasket Cement
See Cement, Gasket

Gasket Cutters
See Cutters, Washer or Gasket

Gasket Shellac
See Cement, Gasket

GASKETS, Asbestos
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill.—*See adv. p. 96*
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill.—"Wirepak"—*Illustration & branch offices, pp. 97 & 98*
Keasbey & Mattison Co., Butler & Railroad Aves., Ambler, Pa.—*Illustration, description, branch offices & factory warehouse distributors, p. 263*
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill—*See adv. p. 99*
27 49 204 1263 1513
1591 1829 1889 2047 2054
2079 2322 2338 2412 3127
3234 4607 4697 6325 6480

GASKETS, Copper
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill.—*See adv. p. 99*
4697 6480

GASKETS, Copper-Asbestos
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. "Adpasco"—*See adv. p. 96*
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Never-Leak"—*Illustrated & described, p. 96*
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill.—*Illustrated, p. 99*
27 49 258 1314 1670
2079 3709 4607 4697 6480

GASKETS, Cork
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill.—*See adv. p. 96*
Armstrong Cork Co., Cork Div., Lancaster, Pa.—*Illustrated & described, p. 100*
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Fel-Pro," "Carrocork"—*Illustration & branch offices, pp. 97 & 98*
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Never-Leak"—*Illustrated, & described, p. 96*
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet cars)—*See adv. p. 118*
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill.—*See adv. p. 99*
27 47 49 251 258
1670 2047 2079 2322 3709
4021 4607 4612 5563 6129
6480

Gaskets, Felt
See Washers, Felt

GASKETS, Fibrous
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill.—*See adv. p. 96*
Vellumoid Co., 54 Rockdale St., Worcester, Mass.—*See adv. p. 100*
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill.—*See adv. p. 99*
27 49 204 1270 1670
1891 2322 4607 6475 6480
6744

Gaskets, Hard Fibre
See Fibre, Hard

GASKETS, Leather
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill.—*See adv. p. 96*
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill.—*Illustration & branch offices, pp. 97 & 98*
27 49 1111 1124 2047
2441 2746 3027 3455 4607
4697 5571

GASKETS, Paper
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. "Adpasco"—*See adv. p. 96*
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill.—*Illustration & branch offices, pp. 97 & 98*
Vellumoid Co., 54 Rockdale St., Worcester, Mass.—*See adv. p. 100*
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill.—*See adv. p. 99*
27 47 49 258 519
1263 1532 2047 2322 4607
4697 6475 6480

GASKETS, Paste
4673 5425

GASKETS, Plastic
5425 6725A

Gaskets, Rubber
See Packing, Rubber

Gasoline Economizers
See Mixers, Economizers or Agitators and Auxiliary Air Valves

Gasoline Hose
See Hose, Gasoline (Metal Lined Rubber and Fabric)

Gear Cutting
See Gears and Pinions, Metal

Gear Pullers
See Pullers, Gear and Wheel

Gear Shift Grease and Oil Protectors
See Protectors, Gear Shift Grease and Oil

Gear Shifters, Automatic
See Shifters, Gear (Automatic)

GEARS, Auxiliary Transmission (For Model A Fords)
1605 2330 3503 4020 6575

Gears, Differential
See Differentials, Auto

GEARS, Generator and Ignitor
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*See adv. pp. 246 & 247*
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p. 249*
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*Illustrated, p. 30*
339 746 1827 1857 2073
2472 3202 3401 4317 4601
4620 5687

Gears, Ring
See Gears, Starter

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

GEARS, Special Ratio (Rear Bevel), for Fords
(Rear bevels and pinions of higher ratio than standard for increasing speed of car for racing purposes)
3914 5101

Gears, Speedometer
See Gears and Pinions, Speedometer

GEARS, Starter
(For attaching to flywheel)
Logan Gear Co., Westwood Ave., Toledo, Ohio—*Illustration & warehouses, p.* 102
Springfield Mfg. Co., Bechtle Ave. & Columbia St., Springfield, Ohio. "Excelsior"—*Illustrated, p.* 102
Warner Gear Co., Clerk & Penn Sts., Muncie, Ind.—*Illustration & warehouse stocks, p.* 28
15 332 558 1224 1605
2448 2825 3106 3534 3775
3914A 4323 4556 4665 5101
5199 5664 6652 6577 6820

GEARS, Steering
(Complete steering gear units)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Chevrolet cars)—*See adv. p.* 118
4297 5183 5563

GEARS, Steering, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio — *See adv. p.* 118

GEARS, Timing (Metallic and Non-Metallic)
Continental-Diamond Fibre Co., Newark, Del. "Celoron"—*Illustration & warehouses, p.* 8
1199 1224 1270 1504 1605
2343 4323 4657 4665 6156
6664

Gears, Transmission
See Transmissions (Auto)

GEARS, Worm Drive
Cleveland Worm & Gear Co., 3261 E. 80th St., Cleveland, Ohio — *Illustrated & described, p.* 104
563 1188 3401 3474 3842A

GEARS and PINIONS, Metal
(Metal gear cutting on contract to sample or blueprint; also stock gears)
Brown-Lipe-Chapin Co., Syracuse, N. Y.—*Illustrated, p.* 103
Logan Gear Co., Westwood Ave., Toledo, Ohio. "Logan I. T. M."—*Illustration, description & warehouses, p.* 102
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet Cars)—*See adv. p.* 118
Warner Gear Co., Clerk & Penn Sts., Muncie, Ind.—*Illustration & warehouse stocks, p.* 28
82 332 563 630 747
1199 2073 2156 3258 3401
3510 3534 3842a 3914 3914a
4297 4621 4657 4665 5101
5563 5663 6110 6216a 6652
6653 6577 6793 6806

Gears and Pinions, Non-Metallic (Timing)
See Gears, Timing (Metallic and Non-Metallic)

GEARS and PINIONS, Speedometer
1270 2073 2799 3401 4620
5759 5761 5832

Generator Bracket Savers
See Tools, Generator Bracket Saving

Generator Brushes
See Brushes, Generator, Horn and Starter

Generator Brush Holders
See Parts, Starting Motor Drive

Generator Couplings
See Couplings, Magneto, Generator and Water Pump

Generator Cutouts
See Cutouts, Reverse Current

Generator Field Coils
See Coils, Generator Field

Generator Gear Pullers
See Pullers, Gear and Wheel

Generator Gears
See Gears, Generator and Ignitor

Generator Parts
See Parts, Magneto, Coil and Distributor

GENERATORS, Acetylene Gas
(For use on car; for Generators for Welding—see Machines and Equipment, Oxy-Acetylene Welding; for Acetylene in Tanks—see Gas, Acetylene (In Tanks)
67 3928A 5608 5811

GENERATORS, Electric Lighting and Battery Charging (Auto)
(See also Starters, Electric Engine; also Systems, Electric Lighting)
Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y.—*Distributors, p.* 91
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
690 1051 1266 1596 1857
2133 2343 3462 5563

Generators, Motor Driven Battery Charging
See Motor Generators, Battery Charging

Glare Dimmers or Preventers
See Dimmers, Glare (Windshield); also Visors, Headlight; also Visors, Windshield

Glass Beveling Machines
See Machines, Glass Beveling and Grinding

Glass, Bullet-Proof
See Glass, Non-Shatterable

Glass Cleaners, Rubber
See Cleaners, Glass (Rubber)

Glass Grinders
See Machines, Glass Beveling and Grinding

GLASS, Non-Shatterable
1655 3022 3137a 4794 5406
6194

GLASS, Polished Plate and Flat Drawn
(For windshield and closed body work; also for lamp, clock, gage and meter glasses)
506 1536 2809 3000 3137a
3489 4362 4721 4744 5047
5198 5406 6131

Glass, Window, Windshield and Visor
See Glass, Polished Plate and Flat Drawn

Glazing Compounds
See Compounds, Glazing

GLOVES, Rubber
(Acid proof gloves for storage battery workers)
559 2029 2324 2412 2415
3903 5617 6205 6344 6747

GOGGLES, Mechanics' and Welders'
Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y.—*Illustrated, pp.* 168 & 169
48 192 792 1115 4565
5597 5608 6125 6304A 6741

Golf Bag Carriers
See Holders, Golf Bag

GOVERNORS, Engine
Handy Governor Corp., 3921 W. Fort St., Detroit, Mich. "KP" — *Illustrated, p.* 52
629 1253 1851 2631 3287
3946

Governors, Load
See Meters, Truck Load Indicating

Grade Indicators
See Meters, Grade

Graphite Cylinder Lubricators
See Lubricators, Cup Cylinder

GRAPHITE, Lubricating
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St. Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86

Grease Bags
See Boots, Steering Knuckle and Joint

Grease Cups
See Cups, Oil and Grease

Grease Guns, Pumps, Cabinets and Buckets
See Lubricators.

Grease Rams
See Drivers. Grease

Grease Retainers
See Retainers, Rear Axle Grease

Grinder Centers
See Centers, Lathe and Grinder

Grinding Equipment
See following heads:
Compounds, Valve Grinding
Drills, Grinders and Polishers
Machines, Glass Beveling and Grinding
Machines, Grinding
Refacers, Valve
Tools, Reamer Sharpening
Tools, Valve Grinding
Wheels, Grinding

Gripping Straps
See Straps, Gripping

Grips, Non-Skid
See Chains or Grips, Non-Skid, for Solid Tires; also Chains or Grips, Non-Skid, for Pneumatic Tires.

Grips, Pedal
See Pads, Pedal

Grips, Steering Wheel
See Covers, Steering Wheel Rim

GRIPS or JAWS, Vise
6321

GROMMETS and EYELETS
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky.—*See adv. p.* 117
360 720 1139 1274 1664
1829 2412 5126 5765 6323A
6344

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

GUARDS, Fender Splash

Automotives, Inc., 30 Euclid Ave., Newark, N. J.—*See adv. p.* 47
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. "Two Toms"—*See adv. p.* 48
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.—*Illustration, description & prices, p.* 57
Signal Mfg. Co., 587 Washington St., Lynn, Mass. "Lion"—*Illustrated & described, p.* 58

210 224 338 692 1667 1905 2628 3221 4677 5556 6133 6469

Guards, Machinery (Wire)
See Guards, Safety, for Machines

Guards, Radiator (Truck)
See Fenders or Guards, Truck Radiator

GUARDS, Safety, for Machines
301 782 3294

Guards, Store Window (Wire)
See Wire, for Enclosures, Fences, Window Guards, etc.

GUARDS, Transmission Lever, for Fords
224

GUIDES, Valve
2799 3709 3775 5718

Guns, Blow
See Nozzles, Air

Guns, Grease and Oil (Hand)
See Lubricators, Hand

GUNS, Heated Air (Electric)
(For draining crankcase and differentials, thawing radiators, etc.)
5185A

Guns, Portable Grease
See Lubricators, Portable High Pressure

GUNS, Radiator Cleaning (High Pressure)
4347

Guns, Spring Leaf Spray
See Lubricators, Spring Leaf

Guns, Wash Spray (Auto)
See Washers, Automobile (Equipment)

Hack Saw Blades
See Blades, Saw (Hack)

Hack Saw Frames
See Frames, Hack Saw

Hack Saws, Rotary
See Saws and Cutters, Rotary

HAIR, Upholstery
(See also Moss, Upholstery; also Felt, Upholstery)
246 668 801

Hammers, Bumping
See Tools, Body and Fender Repair

Hammers, Copper
See Hammers, Soft Face

HAMMERS, Machinists'
(Advertisers in this publication only)
Peck, Stow & Wilcox Co., 217-313 Center St., Southington, Conn.—*See adv. p.* 160
Van Norman Machine Tool Co., 160 Wibraham Ave., Springfield, Mass. (Sole distributors)—*See adv. p.* 149

HAMMERS, Portable Electric
655 5833 6459

HAMMERS, Soft Face
(Including brass, copper, rubber, etc., for use on finished surfaces)
Continental Rubber Works, 1902 Liberty St., Erie Pa. "Vitalic"—*See adv. p.* 134
Hammett Mfg. Co., 13th & Oak, Kansas City, Mo.—*Illustrated, p.* 164
Peck, Stow & Wilcox Co., 217-313 Center St., Southington, Conn. "Pexto"—*See adv. p.* 160
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich.—*See adv. p.* 68

672 726 1124 1274 1591 1829 1921 2410 2416 2429 2454 2622 2627 2841 2846 3010 3256 3903 4214 4525 4644 6197 6208 6344 6717A

HAMMOCKS, Baby
291 692 740 1035 1905 2139 2420 3334 3772 3787 4308 4666

HANDLES, Car Door
121 295 1095 1117 1309 1823 3016 3992 5627 6145 6627 6783

HANDLES, Storage Battery
100 2022 6162

HANGERS and HINGES, Garage Door
110 3546 4036 5118

Hangers, License
See Holders, License

HARDWARE, Automobile and Truck Body
(For top holders—see Holders, Top; for bus hardware—see Fittings, Bus)
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.—*See adv. p.* 155

199 295 356 720 1309 1823 2407 3108 4507 4630 5543 5627 6145 6627 6783 6808

HARDWARE, Convertible Cabriolet
720

HASPS, Hinge
1291 3816 4695

Hat Holders
See Holders, Hat

Headlight Dimming Switches
See Switches, Headlight Dimming

Headlight Focusing Instruments
See Testers, Headlight

Headlight Reflectors, for Fords
See Reflectors, Headlight, for Fords

Headlight Shades, Dimmers or Deflectors
See Dimmers or Deflectors, Headlight; also Visors, Headlight

Headlights
See Lamps, Head

Headlights, Turning
See Lamps, Road Light (Turning)

HEADS, Cylinder
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet cars)—*See adv. p.* 118
1109 3986A 5037 5461A 5563

HEADS, Special Cylinder (For Model A Fords)
1109 3901 5461A

Hearses
See Automobiles (Hearses and Funeral Cars)

Heat Deflectors, for Fords
See Shields, Air Draft Pedal, for Fords

Heater Motors, Electric
See Motors, Electric Heater

Heaters, Air, for Melting Grease, etc.
See Guns, Heated Air (Electric)

HEATERS, Automobile
Francisco Auto Heater Co., Cleveland & Essex Aves., Columbus, Ohio—*Illustrated & described, p.* 52
Powell Muffler Co., 316 Catherine St., Utica, N. Y.—*See adv. p.* 112
Schoedinger, F. O., 322-58 Mt. Vernon Ave., Columbus, Ohio. "Fosco"—*Illustration & prices, p.* 53
Tropic-Aire, Inc., 71 11th Ave., N. E., Minneapolis, Minn. (Hot Water)—*Illustration & prices, p.* 26

268 1620 1651 1819 1842 1905 2108 2124 2384 2402 2749 2812 3010 3065 3222 3286 3351 3355 3493 3509 3544 3855 3857 3926 3943 4326 4557 4681 4750 4782 5172 5191 5458a 5720 5761 6198 6664

HEATERS, Bus
3355 4682

HEATERS, Crankcase Oil
3752 4674 5745

HEATERS, Engine Cooling System
(Permanently installed in cooling system—plug in type, for keeping radiators from freezing or quickly warming them in garages; see also Heaters, Radiator and Under Hood)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn.—*See adv. p.* 86
1667 1861 1867A 2711 6642

HEATERS, Flywheel Gear
15 2448

HEATERS, Garage
135 361 1156 1262 1604a 1885 2090 2465 3007 3266 4303 5176 5458a 5479 5795 6184 6754

HEATERS, Mixture
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet cars)—*See adv. p.* 118
2401 2749 3119 4681 5563 5761

HEATERS, Radiator and Under Hood
(Removable, plug-in type, for keeping radiators from freezing in garages; see also Heaters, Engine Cooling System
1262 3856 5745

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Heaters, Steering Wheel
See Warmers, Hand (Electric)

HEATERS, Storage Battery (Electric)
(Apparatus for softening sealing compound on storage batteries)
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa.—*See adv. p.* 142

HEATERS, Windshield (Electric)
(See also Shields, Frost)
Casco Products Corp., 1333 Railroad Ave., Bridgeport, Conn.—*Illustration, description & prices, p.* 43
Reliance Specialty Co., Holyoke Water Co. Bldg., Rear Cabot St., Holyoke, Mass. "Ovleye"—*Illustration & prices, p.* 53
Signal Mfg. Co., 587 Washington St., Lynn, Mass. "Lion Sleet-Skat"——*Illustration & prices,* p. 58
Tot Industries of Detroit, 2270 First National Bank Bldg., Detroit, Mich. — *Illustration, description & prices, p.* 54
Trico Products Corp., 807 Washington St., Buffalo, N. Y.—*See adv. p.* 74
679 1053 1341 1907 2158
5094 5556 6133a 6178 6190

HEATERS, Windshield (Warm Air)
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich. "Opto-Clear"—*Illustration, description & prices, p.* 68

Heel Plates
See Plates, Heel and Pedal

Heel Rests
See Rests, Heel

HINGES, Door (Auto)
297 1823 6783 6814

Hinges, Door (Garage)
See Hangers and Hinges, Garage Door

HINGES, Hood
295 2453a 5627 6472 6783

HINGES, Windshield
(For shields on closed cars)
295 1823 5627 6472 6783

Hitches, Trailer
See Couplers, Trailer

HOISTS
Columbus - McKinnon Chain Corp., Tonawanda, N. Y. "C M" (Electric)—*Illustrated, p.* 152
1134 1237 3774 5142 6611

Hoists, Chain
See Blocks or Hoists, Chain

Hoists, Portable
See Cranes, Portable (Hand Operated)

Hoists, Transmission
See Derricks, Transmission

HOISTS, Truck Body
(Power and hand hoists for dumping bodies)
National Steel Products Co., 1611 Crystal Ave., Kansas City, Mo.—*See adv. p.* 35
194 587 1584 1811 2080
2307 2697 2829 3156 3251
3521A 3794 3965 4259 4741
5162 5418 5570 6363 6377
6460 6576 6779

Holders, Bouquet
See Vases, Bouquet

HOLDERS, Bow
See Holders, Top

HOLDERS, Card and Label
556 652 1243 1291 1583
2432 2773 3212 4615 5163

HOLDERS, Choke Rod, for Fords
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59

Holders, Crank
See Holders, Starting Crank

HOLDERS, Door (Garage)
(For garage door openers—see Openers, Garage Door)
1669 4687 5105 5118 5451
5694 5697

HOLDERS, Flag, Pennant and Emblem
218 736 1585 1905 5176
5679 6559

HOLDERS, Golf Bag
Tonneau Shield Co., 518 W. 57th St., New York, N. Y. "J. H."—*Illustrated, p.* 70
2020 6174

HOLDERS, Hat
1561 2092 6498 6787

HOLDERS, Lathe and Planer Tool
Armstrong Bros. Tool Co., 304 N. Francisco Ave., Chicago, Ill. — *Illustrated, p.* 159
250 1178 2684 3512A 5058
6660 6730

HOLDERS, License
(Advertisers in this publication only)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Weed" —*See adv. p.* 40
Franklin Die-Casting Corp., Cor. Gifford & Magnolia Sts., Syracuse, N. Y. "Aristocrat"—*Illustration, description & prices, p.* 56
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y. — *Illustrated, p.* 63
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass. "Permalites"—*See adv. p.* 57

Holders, Luggage
See Carriers, Luggage

HOLDERS, Match Box
3772

HOLDERS, Oil Can
1669 3992 5654 5697

HOLDERS, Starting Crank
(Leather strap and holder to prevent starting crank swinging)
692 1048 1575 2441 2746
2758

Holders, Tire
See Carriers, Tire

Holders, Tool
See Holders, Lathe & Planer Tool

HOLDERS, Top
(For holding or clamping top securely when in folded or down position; see also Straps, Leather)
356 720 1823 2407

HOLDERS, Watch
3103 4507

Hones
See Tools, Cylinder Honing

Hood Anti-Rattlers
See Anti-Rattlers, Hood

Hood Fastener Silencers
See Silencers, Hood Fastener

Hood Hinges
See Hinges, Hood

Hood Lacing
See Lacing, Hood; also Leather, Rawhide Lace

HOODS, Engine
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
209 347 1087 1233 5563
5725 6814a

HOOKS, Car Lifting
100 3256 4241 6745

HOOKS, Door (Ventilating)
295

HOOKS, Lacing
5765

Hooks, Mud Extricating
See Chains or Hooks, Mud Extricating

Hooks, Tire Chain
See Fasteners, Tire Chain

Horn Buttons
See Buttons, Push

Horn Controls
See Controls, Horn

Horn Pedals
See Pedals, Horn and Cut-out

HORNS, Bulb (French Type)
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers)—*See adv. p.* 66
2161 4321 5478

HORNS, Electric
Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y.—*Distributors, p.* 91
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y. "Moto Vox"—*See adv. p.* 65
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers)—*See adv. p.* 66
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass. "Sirolectic"—*Illustrated, p.* 57
Schwarze Electric Co., Dept. 3, Church St. at Payne Ave., Adrian, Mich.—*Illustration, description & prices. p.* 57
Sparks-Withington Co., Jackson, Mich. "Sparton" — *Illustrated, p.* 58
690 701 1800 2347 3303
3992 4321 4677 5112 5476
5496 5641 5761 6319

HORNS, Exhaust
(Tube horns or chimes and whistles)
Buell Mfg. Co., 2985 Cottage Grove Ave., Chicago, Ill.—*See adv. p.* 56
163 772 1541 2158 3119

HORNS, Mechanical
(Hand-ope ated diaphragm horns)
1800 3303 5641 5733

HORNS, Pneumatic
Buell Mfg. Co., 2985 Cottage Grove Ave., Chicago, Ill. — *Illustration, description, distributors & prices, p.* 56
772 5112 6663

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

HORNS, Siren
(For ambulances and police and fire department apparatus)
701 5749

HORSES and TRESTLES
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40
142 352 3256 3774 4741
4531 5155 5536 6611

HOSE, Air, Pneumatic Tool (Armored)
277 718 1591 1829 2412
2416 3844 4014 6796

HOSE, Air, Pneumatic Tool (Rubber and Fabric)
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p.* 134
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
700 1123 1146 1274 1513
1591 1829 2412 2416 3844
4525 5049 5102 5617 6344
6796

HOSE, Air, Tire Inflating (Armored)
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p.* 134
277 718 1274 1591 1829
2416 3844 6501 6796

HOSE, Air, Tire Inflating (Rubber and Fabric)
Gates Rubber Co., 999 S. Broadway, Denver, Col. "Vulco"—*See adv. p.* 86
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p.* 85
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
277 700 1591 1817 1829
1862 2026 2324 2378 2412
2416 2746 2773 2781 3324
3844 5102 6129 6344 6501
6796

Hose, Flexible Armored
See Hose, Air, Pneumatic Tool (Armored); also Hose, Air, Tire Inflating (Armored)

Hose, Flexible Metallic
See Tubing, Flexible Metallic

HOSE, Gasoline (Metal Lined Rubber and Fabric)
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p.* 134
International Metal Hose Co., 10109-15 Quincy Ave., Cleveland, Ohio—*Specifications, p.* 135
700 718 1133 1274 1591
1829 2412 3045 3324 3853
4014 4525 4656 5049 5102
6344

HOSE, Metal
(See also Tubing, Flexible Metallic)
American Metal Hose Co., 67 Jewelry St., Waterbury, Conn.—*Branch offices, p.* 132
Chicago Tubing & Braiding Co., 216-24 N. Clinton St., Chicago, Ill. "Rex Tube"—*See adv. p.* 133
171 277 718 1133 4014
4656 6163

HOSE, Radiator (Rubber and Fabric)
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p.* 134
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Emsco Asbestos Co., 206 S. Crawford St., Downey, Cal.—*Illustration, description & warehouse stocks, p.* 110
Gates Rubber Co., 999 S. Broadway, Denver, Col. "Vulco"—*Illustrated p.* 86
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Thermoid Rubber Co., Whitehead Rd., Trenton, N. J. "Rexoid," "Testoid" *See adv. p.* 15
Victor Rubber Co., Springfield, Ohio — *Description and specifications, p.* 50
204 693 1003 1146 1240
1274 1513 1591 1664 1667
1829 1889 1893 1909 2026
2324 2378 2412 2416 2746
2773 2781 2860 3324 3414
3713 3844 3903 4716 5046
5049 5102 5563 5617 6129
6187 6344 6484 6796

HOSE, Water (Rubber and Fabric)
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p.* 134
Gates Rubber Co., 999 S. Broadway, Denver, Col. "Vulco"—*See adv. p.* 86
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p.* 85
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
1146 1274 1591 1829 1862
2026 2324 2378 2412 2416
2746 2773 4525 5049 5102
5617 6129 6344 6796

HOSE, Welding (Rubber and Fabric)
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*Illustrated, p.* 134
Gates Rubber Co., 999 S. Broadway, Denver, Col. "Vulco"—*See adv. p.* 86
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York. N. Y.—*Illustrated, pp.* 168 & 169
1146 1274 1591 1817 1829
1862 2324 2412 2416 2781
4565 5049 5102 5608 6129
6304A 6344

Hose, Wire Wound
See Hose, Air, Pneumatic Tool (Armored); also Hose, Air, Tire Inflating (Armored)

HOSE ASSEMBLIES, Pump
346 1274 1801 1829 1907
3002 3151 5178

Hose Fittings
See Clamps; Connections; Couplings

HOUSINGS, Starting Motor
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "A M O"—*See adv. p.* 243 & *Opposite Inside Back Cover*
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y.—*Illustrated, p.* 119

Hub Caps
See Caps, Hub

Hub Drums
See Winches and Blocks, Car Extracting

Hub Odometers
See Meters or Odometers, Distance Recording

HUBS, Demountable, for Fords
6689

HUBS, Wheel
(Advertisers in this publication only)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Chevrolet cars)—*See adv. p.* 118
U. S. Axle Co., Water St., Pottstown, Pa.—*Illustration and warehouses, p.* 79

HUBS, Wheel, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118
4515 5563 5828

HYDROMETERS
(For testing battery electrolyte, gasoline, etc.)
Christie-Couse Corp., Taos, N. Mex. "Zero-Meter" (Hand; attached to car)—*Described, p.* 150
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146
559 690 1099 1137 1842
2132 2623 2855 3018 3120
4708 5217 5482 5687 5733
6125

Ignition Point Refinishing Tools
See Tools, Ignition Point Refinishing

Ignition Systems, Battery
See Systems, Battery Ignition

Ignitor Gears
See Gears, Generator and Ignitor

IMPELLERS, Water Pump
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio—"Permite-Diamond"—*Illustrated, p.* 10
121 2073 2439 3775

INDICATORS, Battery Condition
(Device to show water level, specific gravity charge, etc.)
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y. (Sole distributors)—*See adv. p.* 30
2305 4601 5822

INFLATORS, Tire (Automatic)
(Permanently attached to each wheel)
4601 6737 6811

Initials, Ornamental
See Monograms, Initials and Emblems, Ornamental

INSTRUMENTS, Brake Testing
(See also Machines, Brake Testing; also Tools, Brake Testing)
164 1311 2146 4034 4353
5049

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

INSTRUMENTS, Electrical Circuit Testing

Hobart Brothers, Box C-50, Canal Locks Square, Troy, Ohio. "HB"—*See adv. p.* 140

Jefferson Electric Co., 1508 S. 15th St., Chicago, Ill.—*See adv. p.* 46

P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*Illustrated, p.* 30

100 228 242 559 812 1226 1860 2384 2766 2818 3114 3121 3256 3471 3768 3798 3890 4407 4304 4317 4601 5511 6193 6616 6664 6745

INSTRUMENTS, Engine Testing

Hammett Mfg. Co., 13th & Oak, Kansas City, Mo.—*Illustrated, p.* 164

160 200 228 336 349 588 2627 3256 4007 5787A

Instruments, Headlight Testing

See Testers, Headlight

Instruments, Ignition Contact Point Synchronizing

See Synchronizers, Ignition Contact Point

Instruments, Insulation Testing

636

INSTRUMENTS, Storage Battery Testing

(See also Instruments, Electric Circuit Testing; also Hydrometers)

General Electric Co., Merchandise Dept., Bridgeport, Conn. "Tungar"—*Illustration & prices, p.* 147

Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*Illustrated, p.* 146

98 100 665 812 2103 2343 2766 3121 3890 4352 4708 5511 6107 6586A 6616 6667 6745

Instruments, Truck Load Indicating

See Meters, Truck Load Indicating

Insulation Undercutting Machines, Commutator

See Machines, Commutator Turning and Insulation Undercutting

Insulators, Rubber Shock

See Shackles, Spring (Rubber Cushioned)

INTENSIFIERS, Spark

(Auxiliary spark gaps, intensifiers or indicators; see also Converters, Ignition)

690 3150

Irons, Body

See Hardware, Automobile and Truck Body

IRONS, Slat

(For Bow Sockets—see Sockets, Bow)

Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.—*See adv. p.* 155

720 2407

IRONS, Soldering (Acetylene)

4770

IRONS, Soldering (Electric)

587 1510 1653 1923 2343 3014 6353

Irons, Tire

See Tools, Tire

Irons, Top

See Hardware, Automobile and Truck Body; also Hardware, Convertible Cabriolet

JACKS, Car Lifting

(For wheeled lifting jacks—see Jacks On Wheels; see also Jacks, Hydraulic)

Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa.—*See adv. p.* 142

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Drednaut"—*Illustrated, p.* 55

Bellevue Mfg. Co., Ashford Ave., Bellevue, Ohio—*See adv. p.* 70

35 41 71 356 595 656 765 1259 1643 1876 3149 3553 3774 3905 3913 3979 4258 4757 5074 5103 5424 5529 6121 6122 6497 6560 6611 6745

JACKS, Garage Repair

Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Hevy-Duty"—*Illustrated and described, p.* 155

71 656 720 3774 3979 4258

JACKS, Hydraulic

American Chain Co., 920 Connecticut Ave., Bridgeport, Conn.—*See adv. p.* 40

Silver King Hydraulic Jack Co., 5604 Cedar Ave., Cleveland, Ohio—*Illustrated & described, p.* 154

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118

142 656 1905 2379 2673 3774 3936 4013 4531 4757 5165 5560 5563 6560

JACKS, Hydraulic (On Wheels)

1876 3417 3774 3794 4258 6478

JACKS, Hydraulic (Permanently Attached to Car)

5562

JACKS, On Wheels

(See also Jacks, Car Lifting; also Jacks, Tire Saving)

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. — *Illustrated, p.* 40

71 142 765 2786 3240 3774 3794 4241 4258 4757 6560 6611 6811 6825

JACKS On WHEELS (Electric)

3979

Jacks, Pedal Depressing

See Depressors, Brake Pedal

JACKS, Pneumatic

Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. — *See adv. p.* 279

JACKS, Spring

(For use in removing spring shackle bolts)

2116 6141 6717A

JACKS, Tire Saving

(For holding car off the floor when not in use)

656 1876 3149 4551 4757 6811

Jacks, Truck Wheel Removing

See Cranes, Drags and Jacks, Truck Wheel Removing

JARS, Battery Cell (Rubber)

161 1829 2412 2798 6344

Jaws, Vise

See Grips or Jaws, Vise.

JEWELS, Lamp

Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.—*Illustrated, p.* 63

Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.—*See adv. p.* 57

506 2809 3002 3293 4677

JIGS, Connecting Rod Aligning

100 336 663 1023 1806 2113 3140 3256 3774 3831 5039 5218 5441 5536 5545 5578 5580 5753 5775 6745

JIGS, Crankcase Aligning, for Fords

(For repairing bent or buckled crankcases)

6745

JIGS, Main Bearing and Connecting Rod Babbitting

(See also Machines, Babbitting (Main Bearing and Connecting Rod)

2707 5218 5441 5545 5775 6551

Jigs, Piston Aligning

See Jigs, Connecting Rod Aligning

JOBBERS OF RADIO PARTS

(Advertisers in this publication only)

Continental Tire Corp., Dept. C, 1508-15 Michigan Ave., Chicago, Ill.—*See adv. p.* 78

JOBBERS and SUPPLY DEALERS

(Advertisers in this publication only)

Continental Tire Corp., Dept. C, 1508-15 Michigan Ave., Chicago, Ill.—*See adv. p.* 78

Keystone Sales Corp., 1826 Sixth St., Detroit, Mich.—*See adv. p.* 166

JOINTS, Ball

(For spark and throttle connections)

Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p.* 90

K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249

643 746 1128 1842 2619 2858 3202 5219

JOINTS, Speedometer Swivel

Casco Products Corp., 1333 Railroad Ave., Bridgeport, Conn.—*See adv. p.* 43

1053 5759 5832

JOINTS, Universal

(For complete drive shaft assemblies—see Shafts, Propeller)

Almetal Universal Joint Co., 1553 E. 55th St., Cleveland, Ohio—*Illustration, specifications & prices, p.* 104

Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p. 118*

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio — *See adv. p.* 118

116 1181 1906 2033 3104 3838 4288 4702 5563 5576 5653 5783

JUMPERS, Battery

3771 5425

Key Cutting Tools

See Tools, Key Cutting

KEYS, Acetylene Gas Tank

1823 6559

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

KEYS, Machine
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*Illustrated & described, p.* 124
Morton Mfg. Co., Key Dept., Broadway & Hoyt St., Muskegon Heights, Mich.—*Described, p.* 164
1626 3453 3987 4254 5093 5696

Keys, Split
See Pins, Cotter

KEYS, Switch, for Fords
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
35 339 3537 4735 5687

KEYS, Switch and Starting
3202 4735 5687

Keys, Valve Spring
See Retainers, Valve Spring

KEYSEATERS, Portable
809

Kick Plates
See Plates, Kick or Scuff

Kits, First Aid
See Cases, Medical Emergency

KITS, Tire and Tube Repair
(Advertisers in this publication only)
(See also Cement, Tire Repair; also Patches, Tube Repair; also Plugs, Tire Repair)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn.—*See adv. p.* 86
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. —*See adv. p.* 85

KITS, Tool
(Advertisers in this publication only)
Corcoran Mfg. Co., Dept. 29, Section & Foraker Aves. (Norwood), Cincinnati, Ohio—*See adv. p.* 126
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley Atha" (Sole distributors) —*See adv. p.* 149
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "National," "Commonsense"—*See adv. p.* 148

KITS, Tool (Ignition)
4317

KNIVES, Rubber
2850 6214

KNIVES, Tire Repair
2850

Knobs, Control Lever
See Balls, Gear Shift Lever

KNOCKERS, Wheel
3831

Knuckle Boots or Cases
See Boots, Steering Knuckle and Joint

Label Holders
See Holders, Card and Label

LABELS
(Advertisers in this publication only)
Unique Printed Products Co., 2224 N. 13th St., Terre Haute, Ind.—*See adv. p.* 173

LACERS, Belt
1195 1570

LACING, Hood (Fabric)
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. —*See adv. p.* 85
Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco" —*Branch offices, p.* 107
231 1829 2378 2746 3485 3891A 5214 5598 5637

Lacing, Hood (Leather)
See Leather, Rawhide Lace

LACING, Hood (Rubber)
Gates Rubber Co., 999 S. Broadway, Denver, Col.—*See adv. p.* 86
1829 2324 2723

Lacing Hooks
See Hooks, Lacing

Lacing Machines, Belt
See Lacers, Belt

LACQUER
(Nitro-cellulose and pyroxylin materials for spray gun application)
Sherwin-Williams Co., Dept 733, 101 Prospect Ave., N. W., Cleveland, Ohio. "Opex"—*See adv. p.* 31
33 38 177 244 586 642 737 1022 1186 1524 1588 1660 1850 2059 2142 2389 2689 2751 3046 3231 3555 4313 4319 4508 4558 4756 5136 5174 5541 5704 5727 6453 6771A

Lacquer Polishing Discs
See Polishers, Disc, for Lacquer

Lacquer Sprayers
See Sprayers, Paint, Varnish and Lacquer

Lacquer Spraying Booths
See Booths, Spraying (Paint and Varnish)

Lamp Parts and Fittings
See following heads:
Adapters, Electric Lamp
Brackets, Lamp (Side and Tail)
Burners, Acetylene Lamp
Caps, Dash Lamp
Cases, Lamp Bulb
Connectors, Lamp (Electric)
Covers, Lamp
Dimmers or Deflectors, Headlight
Jewels, Lamp
Lamps or Bulbs, Miniature Incandescent
Lenses, Lamp (Flat and Ground)
Rims, Headlamp Door
Sockets, Electric Lamp
Washers, Felt

Lamp Posts
See Posts, Lamp (Filling Station)

LAMPS, Cowl, Fender, Tail, Parking, Running Board and Clearance
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. "Piccadilly"—*See adv. p.* 251
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.—*See adv. p.* 63
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*Illustrated, p.* 64
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill—*See adv. p.* 71
Schwarze Electric Co., Dept. 3, Church St. at Payne Ave., Adrian, Mich.—*See adv. p.* 57
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet cars) —*See adv. p.* 118
57 105 131 225 690 750 1150 1233 1257 1576 1599 1624 2475 3002 3200 3226 3278 3759 3772 3809 4227 4712 4735 5176 5179 5476 5496 5563 5604 6326 6810

LAMPS, Dash or Gage
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p.* 71
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet Cars) —*See adv. p.* 118
750 1135 1214 1553 1599 1629 2461 2475 2723 3278 3856 3992 4712 4735 5179 5563 5604 6810

LAMPS, Dome
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p.* 71
1233 1257 2475 3278 4507 4712 4735 5179 5604 6326 6810

LAMPS, Dome (Bus)
1309 1866

LAMPS, Flood, for Display
128 700 2646 5402 5526

LAMPS, Fog
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers)—*See adv. p.* 66

Lamps, Gage
See Lamps, Dash or Gage

LAMPS, Garage Floor
2448 3311 3774 6683 6825

Lamps, Hand
See Lamps, Trouble

LAMPS, Head (Acetylene)
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*Illustrated, p.* 64
750 1150 1599 1624 3200 6810

LAMPS, Head (Electric)
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*Illustrated, p.* 64
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. "Marchal Tri-Lux," "Stephen Grebel". (Importers)—*Illustrated, p.* 66
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
105 690 750 1150 1599 1624 1866 2475 3200 3278 4227 4321 5402 5563 5692 6326 6674 6810

LAMPS, Head (Electric Bus)
57 1866 5179

Lamps, Incandescent
See Lamps or Bulbs, Miniature Incandescent

Lamps, Instrument Board
See Lamps, Dash or Gage

Lamps, Parking
See Lamps, Cowl, Fender, Tail, Parking, Running Board and Clearance

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Lamps, Reel
See Lamps, Trouble; also Lamps, Spot

LAMPS, Road (Courtesy)
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*See adv. p.* 64
131 1150 1203 1553 1624
2162 3278 3759 4037 4227
4712 5405 5496 5761 6196

LAMPS, Road Light (Turning)
(Interconnected with steering gear so as to turn headlights or roadlights with front wheels and illuminate the road around turn ahead of car)
4639

Lamps, Running Board
See Lamps, Cowl, Tail, Parking, Running Board and Clearance

LAMPS, Running Board (Searchlights)
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*See adv. p.* 64
57 1034 3200 5402 6326
6810

Lamps, Side and Tail (Electric)
See Lamps, Cowl, Fender, Tail, Parking, Running Board and Clearance

LAMPS, Side and Tail (Electric Bus)
1866

LAMPS, Spot
Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y.—*Distributors, p.* 91
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*Illustrated, p.* 64
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. "Marchal Tri-Lux" "Stephen Grebel" (Electric; Importers)—*See adv. p.* 66
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p.* 71
57 225 229 690 750
1150 1203 1233 1553 1576
1624 1819 2033 2162 2475
3200 3278 3541 3759 3772
4037 4227 4321 4712 4735
5137 5179 5761 6145 6326
6353 6810

Lamps, Stop
See Signals, Direction Indicating or Traffic

LAMPS, Tail (Acetylene)
(For electric tail lamps—see Lamps, Fender, Cowl, Tail, Parking, Running Board and Clearance)
1599

LAMPS, Tell Tale
(Special lamp and coil for dash attachment to indicate when rear signal or tail lamp fails to light)
5822

Lamps, Tungsten
See Lamps or Bulbs, Miniature Incandescent

LAMPS, Trouble (Electric)
(Lamp and flexible cord for work around car)
General Electric Co., Merchandise Dept., Bridgeport, Conn. "G-E"—*Illustration & prices, p.* 147
Monarch Insulated Wire Corp., 250 W. 54th St., New York, N. Y.—*See adv. p.* 91
Packard Electric Co., Warren, Ohio. "Packard Port-O-Lite"—*Illustrated & described, p.* 93
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill. "Griptite"—*Illustrated & described, p.* 71
224 229 614 1053 1629
1804 1817 2024 2033 2334
2343 2383 2723 3311 3771
3856 3948 3983 4610 4712
4735 4770 5179 5604 6810

LAMPS, Trouble (Magnetic)
Hackett Products Co., 407 Pine St., Providence, R. I.—*Illustrated & described, p.* 55
2604 3278 4230 5179

LAMPS or BULBS, Miniature Incandescent
1843 3819 4223 4237 6216
6665

Lanterns, Hand
See Flashlights

Lap Robes
See Robes, Automobile Lap

Lapping Compounds, Valve
See Compounds, Valve Grinding

Latches, Hood
See Fasteners, Hood

Lathe Attachments
See Centers, Lathe and Grinder; Chucks, Lathe; Dogs, Lathe; Holders, Lathe and Planer Tool

Lathe Tools
See Tools, Lathe and Planer

LATHES, Bench or Precision
South Bend Lathe Works, 373 E. Madison St., South Bend, Ind.—*Illustration, description & prices, p.* 165
100 364 670 1875 2410
4758 5502 5629 6461

LATHES, Brake Drum (Automatic)
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21
Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P. O.), Chicago, Ill.—*See adv. p.* 21
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
South Bend Lathe Works, 373 E. Madison St., South Bend, Ind.—*Illustration, description & prices, p.* 165
56 577 1126 3779 4775
5049 5212 5545 5629 6551

Lathes, Commutator
See Machines, Commutator Turning and Insulation Undercutting

LATHES, Crankshaft
3457 3532 6558

LATHES, Engine
South Bend Lathe Works, 373 E. Madison St., South Bend, Ind.—*See adv. p.* 165.
545 701a 1046 1145 2708
3457 3532 4758 5033 5157
5490 5502 5629 5662

LATHES, Extension and Gap
South Bend Lathe Works, 373 E. Madison St., South Bend, Ind.—*See adv. p.* 165
3457 5033 5502 5629

LATHES, Flywheel
623A 5545

Lathes, Precision
See Lathes, Bench or Precision

Lathes, Valve
See Refacers, Valve

LAUNDRIES, Auto
(Including complete equipment, such as car washers, vacuum cleaners, hot water heaters, air compressors, conveyors, etc.; see also Washers, Automobile (Systems); also Cleaners and Polishers, Overhead Electric (Automobile)
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich—*See adv. p.* 21
577 2147

Lead Burners
See Burners, Lead

LEATHER, Artificial or Imitation
259 1041 1045 1304 1661
1829 2036 3262 3411 3422
4618 5433 5699 6128 6673

Leather Cement
See Cement, Leather

Leather Dressing
See Dressing, Leather

LEATHER, Friction
(For lining brakes and clutches)
1124 2441 2746 2808 3408
5113 6734

LEATHER, Natural
694 1183 1809 2349 2691
2725 3447 5031 5044A 5084
5180

Leather Packing
See Packing, Leather

LEATHER, Rawhide Lace
(For preventing motor hoods from rattling; for fabric lacing—see Lacing, Hood (Fabric); for rubber lacing—see Lacing, Hood (Rubber)
1124 2441 2746 2808 6734

LEATHER, Reconstructed
182A

Leather, Upholstery
See Leather, Natural; also Leather, Artificial or Imitation

Leathers, Pump
See Gaskets, Leather

LEGS, Bench
213 352 685 1668 3294
3409 3564 3782B 4284 5690
6621

LEGS, Spring Cushion, for Folding Front Seats in Coaches
20 2707A 3805 5051

LENSES, Lamp (Composition)
2064

LENSES, Lamp (Flat and Ground)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
617 1297 1536 1624 2475
2787 2809 3111 3115 3137A
3421 3463 3752a 3956 5563
5601 5687 6337

Lever Balls
See Balls, Gear Shift Lever

Lever Extensions
See Extensions, Gear Shift Lever; also Extensions, Brake Lever, for Fords

License Plate Frames and Fittings
See Fasteners, License Tag; Frames, License Plate; Screws, License Plate

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

LIFTERS, Special Valve, for Fords
5212

Lifters, Storage Battery
See Carriers, Storage Battery

LIFTS, Auto (Electric)
132 701 2027 2786 3793
3794 4530

LIFTS, Auto (Hydraulic)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40.
Curtis Pneumatic Machinery Co., 1927 Kienlen Ave., St. Louis, Mo. —*Illustrated & described, p.* 141
United States Air Compressor Co., 5316 Harvard Ave., Cleveland, Ohio. "U.S."—*Illustrated, p.* 145
142 1169 1345 2393 2785
2786 3149 3406 3774 3794
3842 4530 4538 5185A 5408
6324 6604 6611

LIFTS, Auto (Pneumatic)
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21
Curtis Pneumatic Machinery Co., 1927 Kienlen Ave., St. Louis, Mo. —*Illustrated & described, p.* 141

LIFTS, Auto (Self Operated)
701

LIGHTERS, Electric Cigar
(For use on car from regular lighting battery)
Casco Products Corp., 1333 Railroad Ave., Bridgeport, Conn. (Also combination ash receiver and cigar lighter) — *Illustration, description & prices, p.* 43
Hackett Products Co., 407 Pine St., Providence, R. I. "Shur-Lite"—*For illustration and description, see adv. p.* 55
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y. (Combined with cigarette holder & ash tray) —*Illustrated & described, p.* 150
1053 1337 1341 1666 2033
2604 3018 3065 3119 3464
3856 3957 3992 4321 4507
4764 5112 5581 5626 5761
5822

Lighting Systems, Auto
See Systems, Electric Lighting

LIGHTS, Curtain
(For glass curtain lights—see Windows, Glass Curtain)
291 644 1905 2672 2773
4271

Lights, Flash
See Flashlights

Lights, Flood, for Display
See Lamps, Flood, for Display

Lights, Fog
See Lamps, Fog

LIGHTS, Motor Meter
35 3445

Lights, Reel
See Lamps, Trouble; also Lamps, Spot

Lights, Reflecting
See Reflectors, Safety

Lights, Stop
See Signals, Direction Indicating or Traffic

Liners, Leather
See Shims and Liners, Leather

LINING, Body or Frame
(For use between body sill and steel frame to prevent squeaking)
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Fel-Pro." *See adv. pp.* 97 & 98
47 251 1124 1250 1829
2046 2047 2378 2412 2746
3422 3903 5214 5598 5637
6651

LINING, Brake (Liquid)
(For resurfacing worn brake lining)
3516

LINING, Brake (Molded)
Durwyllan Co., 37 Kentucky Ave., Paterson, N. J. "Alltraffic"—*Illustrated, p.* 265
Emsco Asbestos Co., 206 S. Crawford St., Downey, Calif. — *Illustration, description & warehouse stocks, p.* 110
Ferodo and Asbestos, Inc., Extension of Codwise Ave., New Brunswick, N. J.—*See adv. p.* 106
Gatke, Thomas L., 2143 Builders Bldg., Chicago, Ill. "Asbesgraphite," "Utility," "Universal" — *See adv. p.* 108
Johns-Manville, 292 Madison Ave., New York, N. Y.—*Illustration, description & branch offices, p.* 109
Keasbey & Mattison Co., Butler & Railroad Aves., Ambler, Pa. "Ambler Autobestos"—*Branch offices & factory warehouse distributors, p.* 263
Multibestos Co., South St., Walpole, Mass.—*Illustration & branch offices, p.* 108
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*Illustrated, p.* 279
Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco-Durak." (Asbestos fibre)—*Illustration, description & branch offices, p.* 107
Thermoid Rubber Co., Whitehead Rd., Trenton, N. J.—*Illustrated, p.* 15
United States Asbestos Div. of Raybestos-Manhattan, Inc., Manheim, Pa. "Grey-Rock" — *Illustrated & described, p.* 106
United States Rubber Co. (Fibre Products Dept.), 1790 Broadway, New York, N. Y. "U. S. Royal LB"—*Described, p.* 111
95 137 265A 267 281
775 1672 1889 2054 2325
3127 3234 3410 4018 4616
5049 5214 5445 6129 6325
6344

LINING, Brake (Woven)
(For lining brakes or clutches—See also Lining, Brake (Molded); also Leather, Friction)
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. —*See adv. p.* 96
Durwyllan Co., 37 Kentucky Ave., Paterson, N. J. "Alltraffic"—*Illustrated, p.* 265
Emsco Asbestos Co., 206 S. Crawford St., Downey, Calif. — *Illustration & warehouse stocks, p.* 110
Ferodo and Asbestos, Inc., Extension of Codwise Ave., New Brunswick, N. J.—*See adv. p.* 106
Gatke, Thomas L., 2143 Builders Bldg., Chicago, Ill. "Asbesgraphite"—*See adv. p.* 108
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. — *See adv. p.* 85
Johns-Manville, 292 Madison Ave., New York, N. Y.—*Illustration, description & branch offices, p.* 109
Keasbey & Mattison Co., Butler & Railroad Aves., Ambler, Pa. "Ambler Autobestos" — *Illustration, specifications, branch offices & factory warehouse distributors, p.* 263
Multibestos Co., South St., Walpole, Mass.—*Illustration & branch offices, p.* 108
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. "Hycoe," "Vel-Co"—*Illustrated & described, p.* 279
Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Ace," "Rusco," "Bulldog," "Benlock"—*Illustration, description & branch offices, p.* 107
Thermoid Rubber Co., Whitehead Rd., Trenton, N. J. "Rexold" — *Illustrated, p.* 15
United States Asbestos Div. of Raybestos-Manhattan, Inc., Manheim, Pa. "Motobestos," "Durabestos," "Grey-Rock," "U. S. Asbestos," "Grey-Rock Eagle"—*Illustrated & described, p.* 106
49 95 101 115 130
146 204 265 265A 266
267 281 768 808 1670
1672 1889 2054 2325 2338
2378 2746 3104 3119 3127
3234 3410 3773 3797 3891A
4018 4218 4616 5046 5049
5214 5425 5445 5457 5563
5598 5633 5637 6129 6304
6325 6628 6795 6796

Lining, Frame
See Lining, Body or Frame

LINING, Hood (Insulating)
(See also Covers, Louvre)
3234 4786

LININGS, Head
291 1516 4618 6801

LINKS, Spring Shackle
720 6307

LINKS, Steering
1141 6141

LINKS, Tire Chain Repair
Cleveland Chain & Mfg. Co., Penna. R. R. & Henry Rd., Cleveland, Ohio —*See adv. p.* 38
Flower City Specialty Co., 250 Mill St., Rochester, N. Y. "Monkey"—*Illustration, description, prices & jobbers, pp.* 36 & 37
Lion Chain Co., 3124 W. 51st St., Chicago, Ill. "Cub"—*See adv. p.* 42
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59
Signal Mfg. Co., 587 Washington St., Lynn, Mass. "Lion"—*See adv. p.* 58
134 724 1077 1174 2092
3512 3537 5046 5051 5420
5556 6162 6330 6586

LINOLEUM
(For covering floors and running boards)
Armstrong Cork Co., Cork Div., Lancaster, Pa.—*Illustrated, p.* 100
251 1075 4607 5595 6172

Linoleum Cement
See Cement, Linoleum

Load Governors or Indicators
See Meters, Truck Load Indicating

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Load Plates
See Plates, Load Data

Lock Nuts
See Nuts, Lock

Lock Switches
See Locks, Ignition

Lock Washers
See Washers, Lock

LOCKERS, Metal Clothes
114 622 1247 3113 3571
3782B 3840 4350 4654 5112A
6124

LOCKS, Cabinet and Pad
523 727 1117 1291 1805
2122 2845 3816 3899 5072
5436 5512 5593 6808

Locks, Cap
See Locks, Radiator Cap and Thermometer

Locks, Chain
See Locks, Spare Tire and Wheel

LOCKS, Door (Automobile)
1309 1805 1823 3014 3750
5627 6783 6808

LOCKS, Gasoline Tank Cap
334A

LOCKS, Ignition
727 1201 1257 1291 1857

Locks, Nut
See Nuts, Lock

LOCKS, Radiator Cap and Thermometer
96 131 3286 3464

LOCKS, Robe
508

LOCKS, Spare Tire and Wheel
(Including locks, locking chains, cables, etc.)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Weed"—*See adv. p. 40*
142 523 724 1077 1174
1237 1291 1537 1640 1669
1805 1905 2120 2122 2312
2845 3468 3816 3855 3899
4503 5072 5105 5436 5593
5692 6100 6808

LOCKS, Spare Tire and Wheel, for Fords
1291 1669 2158 2845 3509
5072 5692 5697 5745

LOCKS, Steering (Towing)
3794 4258

LOCKS, Steering Wheel
1603 3794 4670 5593

Locks, Switch
See Switches, Lock

Locks, Thermometer
See Locks, Radiator Cap and Thermometer

Locks, Tire
See Locks, Spare Tire and Wheel

LOCKS, Tool Box
1291 1805 2122 5072 5593
6808

LOCKS, Transmission
1291 1537 2845 6808

Locks, Valve Spring
See Retainers, Valve Spring

Locks, Wheel
See Locks, Spare Tire and Wheel

Loom Tubing
See Tubing, Spaghetti and Loom

LOOPS, Brass Snap and Strap
(See also Fittings & Fixtures, Top)
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co."—*See adv. p. 117*
295 360 1309 1823 4271
6627 6783

Lubricants
See Graphite, Lubricating; also Oils, Lubricating

Lubricants for Combustion Chamber Oilers
See Oils, Lubricating (For Combustion Chamber Oilers)

LUBRICANTS, Spring
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p. 86*
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y. "Marvel Mystery"—*Illustrated & described, p. 6*

Lubricator Systems, for Fords
See Lubricators and Oil Pumps, for Fords

Lubricators, Chassis
See Fittings, Lubricating

LUBRICATORS, Combustion Chamber
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Red Head"—*See adv. p. 142*
Opco Co., 1894 Niagara St., Buffalo, N. Y.—*Illustration, description & prices, p. 60*
Red Head Mfg. Co., 1983 E. 57th St., Cleveland, Ohio — *Illustration, description & prices, p. 60*
35 529 599 1316 1539
2071A 2749 3110 3209 3218
4007 4301 4543 5064 5720
6161 6193 6580

LUBRICATORS, Hand
(Including type commonly known as grease and oil guns; also high pressure type; see also Lubricators, Portable, High Pressure; for car lubricators—see Lubricators or Oil Pumps, Hand; also Fittings, Lubricating)
Gray Co., 120 S. Tenth St., Minneapolis, Minn. "Graco"—*Illustrated & described, p. 27*
Rogers Products Co., 198 Pacific Ave., Jersey City, N. J. "Everready"—*Illustration, description & prices, p. 156*
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "Diamond"—*See adv. p. 148*
39 44 58 86 346
696 723 1141 1587 1632
1842 1905 2445 2460 2656
2760 3151 3846 3950 4327
5165 5178 5753 6217 6679

LUBRICATORS, Portable, High Pressure (Compressed Air)
(See also Lubricators, Hand)
Gray Co., 120 S. Tenth St., Minneapolis, Minn. "Graco"—*Illustrated & described, p. 27*
Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y.—*Illustration, description and prices, 2nd page from Inside Back Cover*
Rogers Products Co., 198 Pacific Ave., Jersey City, N. J. "Everready"—*Illustration, description & prices, p. 156*
39 86 254A 704A 1141
2445 3241 3298 3554 3774
4603 5100 5112A 5165 6161
6477

LUBRICATORS, Portable, High Pressure (Electric)
Rogers Products Co., 198 Pacific Ave., Jersey City, N. J. "Everready"—*Illustration, description & prices, p. 156*
United States Air Compressor Co., 5316 Harvard Ave., Cleveland, Ohio — *Illustrated & described, p. 145*
39 86 254A 1141 6165
6324

LUBRICATORS, Portable, High Pressure (Hand Operated)
Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y. "Repeal Metal-pump." (Sole distributors)—*Illustration, description & prices, 2nd page from Inside Back Cover*
Rogers Products Co., 198 Pacific Ave., Jersey City, N. J. "Everready"—*Illustration, description & prices, p. 156*
86 254A 295 1141 2760
3241 3846 3942 5100 5165
5510 6604 6611

LUBRICATORS, Spring Leaf
(For service station use; for automobile spring leaf lubricators—see Covers, Spring Leaf Lubricating; also Oilers, Spring)
Gray Co., 120 S. Tenth St., Minneapolis, Minn. "Graco"—*Illustrated & described, p. 27*
Hansen Mfg. Co., 1786 E. 27th St., Cleveland, Ohio — *Illustration, description & prices, p. 144*
Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y. — *Illustration & prices, 2nd page from Inside Back Cover*
39 346 1141 1587 2394
2445 2617 2641 2826 3218
3241 4603 5165 5173 5185A
5524 6161 6324

LUBRICATORS, Stationary, High Pressure (Compressed Air)
254A 1141 2445 5112A

LUBRICATORS or OIL PUMPS, Hand
(Auxiliary hand oil pumps)
3016 3837

LUBRICATORS or OIL PUMPS, for Fords
(Supplementary oiling devices)
224 2795 3119 5105 5166
5715

Luggage Carrier Covers
See Covers, Luggage Carrier

Luggage Carriers
See Carriers, Luggage; also Racks, Trunk

Luggage Nets
See Nets, Luggage

Lumber Rollers
See Rollers, Lumber

Machinery Guards
See Guards, Safety, for Machines

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

MACHINES, Addressing
(Advertisers in this publication only)
Elliott Addressing Machine Co., Cambridge, Mass.—*Illustrated, p.* 136

MACHINES, Babbitting (Main Bearing and Connecting Rod)
(See also Jigs, Main Bearing and Connecting Rod Babbitting)
4547 4646 5545

MACHINES, Balancing (Crankshaft)
6477A 6745

MACHINES, Balancing (Wheel)
2786

Machines, Bearing Reaming
See Reamers, Main Bearing and Connecting Rod

MACHINES, Boring (Main Bearing and Connecting Rod)
2113 2707 2821 3256 4322
5218 5545 5650 5775 5776
6104

MACHINES, Brake Cleaning (Portable Hydraulic)
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. "Tilden Hydraulistat." (Sole distributors)—*See adv. p.* 279
3939 4009 5049 6153

MACHINES, Brake Relining
(For performing all operations in relining external and internal brakes)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21
Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P. O.), Chicago, Ill.—*See adv. p.* 121
Manufacturer's Belt Hook Co., 1315-21 W. Congress St., Chicago, Ill. "L-X"—*Illustrated, p.* 120
Multibestos Co., South St., Walpole, Mass.—*Branch offices, p.* 108
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. (Also sole distributors)—*See adv. p.* 279
101 115 142 577 718
1082 1126 1518 1669 2338
2437 3256 3417 3518 3774
3780 3891A 4018 4655 5046
5049 5132 5212 5214 5721A
5363 6611 6719 6797A

MACHINES, Brake Testing
(See also Instruments, Brake Testing; also Tools, Brake Testing)
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21
Bendix-Cowdrey Brake Tester, Inc. (Div. of Bendix Aviation Corp.), South Bend, Ind. "Cowdrey"—*See Front Cover*
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
577 610 712 1930 4029
4775 5049 5132 5133 5408
6611 6819A

MACHINES, Burning-in
3106 3256

MACHINES, Commutator Turning and Insulation Undercutting
Cedar Rapids Engineering Co., 901 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way"—*See adv. p.* 152
100 242 533 645 1058
2384 3003 5441 6616 6745

MACHINES, Cylinder Reboring
(See also Bars, Boring; also Tools, Cylinder Regrinding (Portable); also Tools, Cylinder Reboring (Portable)
Storm Mfg. Co., 406 Sixth Ave., S., Minneapolis, Minn. "Stormizing"—*Illustrated & described p.* 151
5775 6745

MACHINES, Drilling, Bench (Hand)
3905 4338

MACHINES, Drilling, Bench (Power)
200 545 778 1023 2764
6756

MACHINES, Drilling, Pneumatic, (Portable)
1123 1179 3033

MACHINES, Drilling (Vertical)
81 545 546 778 1023
1082 2112 4514 5117 5157
5553 6339a

MACHINES, Engine Decarbonizing
(Oxygen carbon burning outfits; for chemical carbon removers—see Compounds, Carbon Removing)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — ***See*** *adv. p.* 170
555 792 2654 3016 3891
4565 5419 5608 5810 5811
6171 6176 6622

MACHINES, Floor (Electric)
(For polishing, sandpapering and scrubbing floors)
2068 3254 3505

MACHINES, Glass Beveling and Grinding
3426 5624

MACHINES, Grinding (Automotive Parts)
1144 5545

MACHINES, Grinding (Bench)
United States Electrical Tool Co., 248 W. Sixth St., Cincinnati, Ohio.—*See adv. p.* 17
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley." (Sole distributors)—*See adv. p.* 149
272 655 670 1143 2764
3264 3547 3783 3795 5064
5452 5578 5676 5708 5741
5783 6118 6332 6459 6461
6616 6745 6756

MACHINES, Grinding, Brake Drum (Automatic)
4018 5132

MACHINES, Grinding (Brake Lining)
Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P.O.), Chicago, Ill.—*See adv. p.* 121
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
1126 5049 5212 5763

Machines, Grinding (Piston)
See Machines, Piston Turning and Grinding

MACHINES, Grinding (Plain Tool)
Hobart Brothers, Box C-50, Canal Locks Square, Troy, Ohio. "HB"—*See adv. p.* 140
752 1107 1143 1161 1197
1590 1865 2309 2384 2766
3986 4346 4634 5043 5201
6102 6331

MACHINES, Grinding (Portable Pneumatic)
1123

MACHINES, Grinding (Reamer and Cutter)
Cedar Rapids Engineering Co., 901 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way"—*See adv. p.* 152
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*See adv. p.* 149
752 1058 1308 1919 2113
2309 3457 4514 6312 6461

MACHINES, Grommetting and Eyeletting
5765

Machines, Lead Burning
See Burners, Lead

MACHINES, Milling (Hand)
752 2145 3249 5800 6339a
6461

MACHINES, Piston Rechamfering
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*See adv. p.* 149
5775 6461

MACHINES, Piston Turning and Grinding
Cedar Rapids Engineering Co., 901 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way"—*See adv. p.* 152
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Re-li-o"—*Illustrated, p.* 149
1058 5748 5775 6461

Machines, Reboring
See Machines, Cylinder Reboring

MACHINES, Rubbing (Pneumatic)
5800

Machines, Running-In
See Machines, Burning-In

MACHINES, Sanding (Portable Electric)
633 645 1031 1123 1154
3769 4252 4269 6459 6756

MACHINES, Sanding (Portable Pneumatic)
5800

MACHINES, Score Filling (Electric)
3728

Machines, Service Station
See Tools and Machines, Service Station

MACHINES, Spring (Elliptic)
1920

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

MACHINES, Tire Buffing (Electric)

Hobart Brothers, Box C-50, Canal Locks Square, Troy, Ohio. "H-B" —*See adv. p.* 140

83 186 510 645 1143
1161 2670 2766 3239 3250
3894 5741 5782 5783 5784
6331

MACHINES, Tire Cutting Off (Solid)

(For cutting or sawing worn-out solid tires so that they may be readily removed)

5029

MACHINES, Tire Inspecting

(For spreading the shoe or opening it to permit more careful examination of the inner surface; for tire spreading tools —see Tools, Tire Spreading)

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. (Pneumatic)—*Illustrated, p.* 40

Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y. — *Illustration & prices, 2nd page from Inside Back Cover*

142 3239 3241 3774 5038
6611

MACHINES, Tire Removing and Replacing

American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40

142 510 718 3519 3774
4651A 6611 6649

Machines, Valve Refacing

See Refacers, Valve (Electric)

MACHINES, Washing (Metal Parts)

1227 1831 2768 2817 3446
5635

MACHINES, Wheel Straightening (Disc)

770

MACHINES and EQUIPMENT, Electric Welding (Arc)

Hobart Brothers, Box C50, Canal Locks Square, Troy, Ohio. "HB" —*Illustrated, p.* 140

94 1856 2343 2766 4349
5810 5833 6300 6301 6664

MACHINES and EQUIPMENT, Oxy-Acetylene Welding

Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170

Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146

Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y. "Prest-O-Weld," "Carbic" —*Illustration, description & prices, pp.* 168 & 169

67 555 738 792 2654
3016 3049 3891 3928a 4565
4708 4803 5419 5608 5810
5811 6171 6176 6304a 6487
6622

Magnet Remagnetizers

See Chargers, Magneto Magnet

Magneto Couplings

See Couplings, Magneto, Generator and Water Pump

Magneto Parts

See Parts, Magneto, Coil and Distributor

MAGNETOS, Ignition

Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y.—*Illustration & distributors, p.* 91

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118

228 624 689 690 1851
3207 5563 5655

MAGNETS, Lifting

(For picking small parts out of oil pans, gear cases, etc.)

682a

Mallets, Brass and Copper

See Hammers, Soft Face

MANDRELS, Connecting Rod

6605

MANDRELS, Expanding

3986 5218 5700 6660

Manifold Heaters

See Heaters, Mixture

MANIFOLDS, Intake, for Fords

Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118

5563 6676

Market Reports, Used Car

See Reports, Used Car Market

Marketing Service

See Service, Marketing

Masking Compounds, Pastes and Paints

See Compounds, Masking

Masking Paper

See Paper, Masking

Masking Tape

See Tape, Masking

Master Vibrators

See Coils, Ignition (Vibrating)

MATS, Carpet

(See also Carpet, Coach and Motor Car)

1035 2139 3236 4308 5460
6133

MATS, Floor Board, for Fords

Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie" — *See adv. p.* 86

Victor Rubber Co., Springfield, Ohio —*Illustrated & described p.* 50

634 693 1667 1909 2006
2324 2412 3324 3414 4308
5460 6344 6484

MATS, Leather

2441 5681

Mats, Linoleum

See Linoleum

MATS and MATTING, Rubber

Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134

Gates Rubber Co., 999 S. Broadway, Denver, Colo.—*See adv. p.* 86

Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. — *See adv. p.* 279

Victor Rubber Co., Springfield, Ohio —*Illustrated, p.* 50

131 634 649 1240 1274
1513 1583 1829 1893 1909
2026 2324 2412 2416 2773
2860 3327 3414 3844 4302
4525 4613a 4676 5049 5102
5207 6172 6205 6344 6484

MATS, Running Board

1591 1829 1889 1909 2026
2412 2416 2773 2860 3324
3414 4613a 4676 6205 6344
6484

MATTING, Aluminum

1896 5654 6172 6822a

MATTRESSES, Pneumatic

278 1893 3208 3862 4305

MEASURES, Metal

(For gasoline or oil)

Brookins Mfg. Co., 770 Hawthorne St., Dayton, Ohio — *Illustrated & described, p.* 156

590 734 817 1067 1233
1523 1632 2362 2826 3342
3448 3713 5831

Medical Emergency Cases

See Cases, Medical Emergency

METAL, Body Filling

(For repairing steel and aluminum body parts)

Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland, Ohio. "Body Fill"—*See adv. p.* 170

METAL, Perforated

1328 2652 2709 4023

METALS, Bearing

(Advertisers in this publication only)

Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich. "Mogul" —*Illustration & warehouses, p.* 207

Johnson Bronze Co., S. Mill St., New Castle, Pa.—*Warehouses, p.* 84

Phosphor Bronze Smelting Co., 2200 Washington Ave., Philadelphia, Pa. "Elephant" — *See adv. opposite Inside Front Cover*

METERS, Air Tower (Automatic)

5510

Meters, Cylinder Compression

See Gages, Cylinder Compression

METERS or ODOMETERS, Distance Recording

(For combined odometers and speedometers, see Speedometers)

Veeder-Root, Inc., 22 Sargeant St., Hartford, Conn. — *Illustration, prices & sales and service stations, p.* 138

4528 5761 6472

METERS or ODOMETERS, Distance Recording, for Fords

Veeder-Root, Inc., 22 Sargeant St., Hartford, Conn. — *Illustrations, prices & sales and service stations, p.* 138

3321 6472

METERS, Gasoline or Oil

(For use in connection with gasoline or oil storage systems to indicate or record the amount drawn out)

700 780 1899 2445 3238
6827

METERS, Grade

(For attaching to car to indicate degree of grade)

5131

METERS, Truck Load Indicating

655

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

METERS, Water Temperature Indicating
(For attachment to radiator cap or dash to show temperature of cooling water)
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. (For Model A Fords)—*See adv. p.* 251
Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y. "Boyce Moto-Meter," "Safe-T-Stat," "Nagel," "Red Ball" —*See adv. p.* 65
6 208 1257 2018 2132 3108 3992

MICA SHEETS, TUBES, WASHERS and CORES
27 1119 1270 4607 5125

Mica, Tire
See Talc, Tire

MICROMETERS
(See also Gages, Cylinder)
Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I.—*Illustration & specifications, p.* 162
752 2084 2410 3559 5596 5719

Milling Attachments
See Attachments, Lathe Milling

Milling Cutters
See Cutters, Milling

Milling Machines
See Machines, Milling (Hand)

MILLS, Drive Shaft Bearing End, for Fords
6745

MILLS, Steering Knuckle Bushing, for Fords
6745

Mirror Brackets
See Brackets, Mirror

Mirror Glare Shields
See Dimmers, Glare (Rear View Mirror)

MIRROR and CLOCK COMBINATIONS
3776 4292 5430a 5685

MIRRORS, Closed Car
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers)—*See adv. p.* 66
506 702 4321 6218

MIRRORS, Panel (for Buses)
5685

MIRRORS, Rear Vision
(Advertisers in this publication only)
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. — *See adv. p.* 85
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.—*Illustrated, p.* 63
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*Illustrated, p.* 64
Kales Stamping Co., 1669 W. Lafayette Blvd., Detroit, Mich.—*Illustrated & described, p.* 61
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.—*See adv. p.* 57
Trico Products Corp., 807 Washington St., Buffalo, N. Y.—*See adv. p.* 74

MIXERS, ECONOMIZERS or AGITATORS and AUXILIARY AIR VALVES
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—(For Ford & Chevrolet cars)—*See adv. p.* 118
5105 5559 5563

Mohair Cloth
See Cloth, Mohair

Molds, Battery
See Molds, Lead

MOLDS, Lead
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146
559 1009 3437 4708 6355 6586a

MONEY CHANGERS
2306

MONOGRAMS, Celluloid
3525

Monograms, Decalcomania
See Transfers, Decalcomania

MONOGRAMS, Hand Painted
3525

MONOGRAMS, INITIALS and EMBLEMS, Ornamental
Biltmore Mfg. Co.. 2234 Ogden Ave., Chicago, Ill.—*Branch offices, p.* 47
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y. — *See adv. p.* 150
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (St. Christopher medallions — importers) — *Illustrated, p.* 66
1323 1905 2121 3016 3018 3227 3828a 3955 4215 4321 6151 6217 6464

Mops, Fountain
See Washers, Automobile (Fountain Brushes and Mops)

MOSS, Upholstery
(See also Hair, Upholstery; Felt, Upholstery)
153 505 801

Motor Commutators
See Commutators, Electric Motor

MOTOR GENERATORS, Battery Charging
(For garages and battery charging plants; for automobile generators—see Generators, Electric Lighting and Battery Charging, Auto)
802 1596 2014 2343 2384 2766 3017 4349 5142 5190 6664

MOTORS, Electric, for Driving Machinery
107 108 802 1161 1644 1865 2014 2343 2701 3282a 3783 4349 4518 5030 5142 5190 5741 5783 6331 6454 6553 6664

MOTORS, Electric Heater
3313 5066

MOULDING, Drip
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Vecolite"—*Illustration & sizes, p.* 117
120 343 360 1048 1628 2625 2722 3294 3465 5041 5543 5654 6783

MOULDING, Finish
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. — *Illustration & sizes, p.* 117
120 343 1048 2625 2682 2722 3294 5041 5543 5654 6214a 6783

MOULDING, Running Board
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Vecolite" — *Illustration & specifications, p.* 117
120 343 360 1628 2722 3294 3465 5654 6172 6783

Mountings, Spring (Rubber Insulated)
See Shackles, Spring (Rubber Cushioned)

Mud Extricating Chains or Hooks
See Chains or Hooks, Mud Extricating

Mud Guard Braces
See Braces, Mud Guard or Fender

Mud Guards
See Fenders or Mud Guards, Metal

Muffler Cut-Out Pedals
See Pedals, Horn and Cut-Out

Muffler Cut-Outs
See Valves, Cut-Out

Muffler Pressure Gages
See Gages, Muffler Back Pressure

MUFFLERS, By-Pass
1287 1541 2402 4534

MUFFLERS, Exhaust (Auto)
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permatite-Diamond"—*Illustrated, p.* 10
Powell Muffler Co., 316 Catherine St., Utica, N. Y.—*Illustrated, p.* 112
Pratt Chuck Co., Frankfort, N. Y.—*Illustration & warehouse stocks, p.* 112
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. — *See adv. p.* 118
121 798 1541 1603 1905 2334 2402 2795 3872 4534 4750 4755 5563 6675

Nails, Upholstery
See Tacks, Upholstery

NETS, Luggage
2628 4358

Nippers
See Pliers; also Tweezers, Locking

Nipples, Pipe
See Fittings, Tube (Copper or Brass)

Nipples, Pump
See Connections, Tire Pump

Nipples, Rubber
See Covers, Distributor; also Covers, Spark Plug

Nitro-Cellulose Finishes
See Lacquer

NOZZLES, Air
(Blow gun for blowing dust and dirt from chassis and body)
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill.—*Illustrated, p.* 170
525 577 1141 3016 6663

Nozzles, Automobile Washing
See Washers, Automobile (Equipment)

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

NOZZLES, Lubricating
86 1587

Nozzles, Paint Spray
See Sprayers, Paint, Varnish and Lacquer

Nut Splitters
See Splitters, Nut

NUTS
Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio—*Illustration & warehouses, p.* 131
Aetna Metal Products Co., 1824 Washington Ave., St. Louis, Mo.—*Illustration & prices, p.* 124
Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio. (Tire valve rim)—*See adv. p.* 73
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*Illustrated, p.* 124
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "Thrift-Pak"—*See adv. pp.* 246 & 247
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire" —*Illustration, description & branch offices, p.* 123
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*Illustrated, p.* 122
16 24 52 284 295
323 351 543 630 728
774 1128 1158 1173 1602
1626 2056 2472 2655 2669
2680 2702 3420 3944 4011
4211 4254 4271 4536 4688
5069 5213 5538 5563 5815
6195 6221 6309 6323a 6559
6644 6658

NUTS, Axle Shaft Adjusting
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio.—*See adv. p.* 124
1626 4662

Nuts, Bearing
See Bolts & Nuts, Automatic Connecting Rod Bearing

NUTS, Lock
(For Lock Washers—See Washers, Lock)
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co"—*See adv. p.* 117
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio.—*Illustrated, p.* 124
295 360 691 1626 1633
2338a 4746 5093 6323a

NUTS, Semi-Finished
Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio—*Illustration & warehouses, p.* 131
Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland, Ohio—*Warehouse stocks, p.* 122
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire" —*Illustration, description & branch offices, p.* 123
United Screw & Bolt Corp., Cleveland, Ohio & Chicago, Ill.—*Illustrated, p.* 122
16 24 284 323 774
1128 1173 1234 2056 2669
2702 3420 4254 4688 5114
5213 5538 6195 6309 6323a

NUTS, Spindle Bolt, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118

NUTS, Thumb
295 643 1158 3268 6323a
6730

NUTS, Wing
United Screw & Bolt Corp., Cleveland, Ohio & Chicago, Ill.—*Illustrated, p.* 122
295 643 1823 3268 4254
4688 5069 6323a 6483

Odometers or Distance Meters
See Meters or Odometers, Distance Recording

Oil Can Holders
See Holders, Oil Can

Oil Cans
See Cans, Oiling

Oil Cups
See Cups, Oil and Grease

Oil Dispensers
See Dispensers, Oil; also Tanks, Oil (Portable)

Oil Distributors
See Automobiles (Oil, Tar and Asphalt Distributors)

Oil Drip Pads (Floor)
See Pads, Oil Drip (Floor)

Oil Filters
See Reclaimers or Rectifiers, Oil (Garage or Repair Shop); also Purifiers, Oil (For Attaching to Engine)

Oil Funnels
See Funnels, Metal

Oil Gages
See Gages, Oil Pressure; also Gages, Oil Level

Oil Gages, for Fords
See Gages, Oil, for Fords

Oil Guns
See Lubricators, Hand

Oil Hole Covers
See Covers, Oil Hole

Oil Level Gages
See Gages, Oil Level

Oil Level Indicators, for Fords
See Gages, Oil, for Fords

Oil Line Tubing
See Tubing, Oil and Gasoline Line

Oil Measures
See Measures, Metal

Oil Pans
See Pans, Engine

Oil Reclaimers
See Reclaimers or Rectifiers, Oil (Garage or Repair Shop)

Oil Rectifiers
See Reclaimers or Rectifiers, Oil (Garage or Repair Shop); also Purifiers, Oil (for Attaching to Engine)

Oil Retainers
See Retainers, Rear Axle Grease

Oil Retaining Rings
See Washers, Felt

Oil Rod Wipers
See Wipers, Oil Rod

Oil Stills
See Purifiers, Oil (For Attaching to Engine); also Reclaimers or Rectifiers, Oil (Garage or Repair Shop)

Oil Tanks
See Tanks & Systems, Gasoline and Oil Storage; also Tanks, Oil (Portable)

Oil Test Cocks, for Fords
See Gages, Oil, for Fords

Oiled Duck
See Cloth, Enameled or Oiled

OILERS, Chevrolet Clutch Collar
3530

Oilers, Cup
See Cups, Oil and Grease

OILERS, Spring
(Oil cups or retainers to be applied to springs to keep them lubricated; see also Covers, Spring Leaf Lubricating)
2668 3018

Oilers, Squirt
See Cans, Oiling

Oiling Systems, for Fords
See Lubricators and Oil Pumps, for Fords

OILS, Lubricating
(Advertisers in this publication only)
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y. "Marvel Mystery"—*Illustrated & described, p.* 6
Wolverine-Empire Refining Co., 51 Madison Ave., New York, N. Y. "Wolf's Head Oil"—*Description & distributors, p.* 76

OILS, Lubricating (For Combustion Chamber Oilers)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn.—*See adv. p.* 86
Opco Co., 1894 Niagara St., Buffalo, N. Y. "Opco"—*See adv. p.* 60
Red Head Mfg. Co., 1983 E. 57th St., Cleveland, Ohio—*Illustration & prices, p.* 60
599 1006a 1539 1667 2071a
4007 4543 5001 5064 5549
5625 6161 6580

Oils, Penetrating
See Lubricants, Spring

Oldham Couplings
See Couplings, Magneto, Generator and Water Pump

OPENERS, Bus Door
295 1823

OPENERS, Curtain
(A device to be attached to doors of open cars so that storm curtains may be opened with the doors)
295 652

OPENERS, Electric Battery
(See Heaters, Storage Battery (Electric))
3890 6825

OPERATORS, Garage Door (Electric)
128 2675 4753 5118 6814

OPERATORS, Garage Door (Mechanical)
3865

OPERATORS, Garage Door (Pneumatic)
3874 5459

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

ORNAMENTS, Radiator

(See also Flags, Pennants and Emblems; Holders, Flag, Pennant and Emblem; Monograms, Initials and Emblems, Ornamental)

Nil Melior, Inc., 100 W. 56th St., New York, N. W. (Importers)—*Illustration, description & prices, p. 66*

131 261 556 1323 1339
2018 2121 2404 2432 3286
4321 5687 6145 6151

Orphan Car Repair Parts

See page 342

Overalls

See Coveralls and Service Coats

Oxygen Gas

See Gas, Oxygen (In Tanks)

Oxygen Tank Trucks

See Trucks, Acetylene and Oxygen Tank

PACKING, Asbestos

Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. "Tenax"—*See adv. p. 96*

Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Asbestopak," "Grafel"—*See adv. pp. 97 & 98*

Ferodo and Asbestos, Inc., Extension of Codwise Ave., New Brunswick, N. J. "Permanite" — *See adv. p. 106*

Keasbey & Mattison Co., Butler & Railroad Aves., Ambler, Pa. "Ambler" — *Illustration, description, branch offices & factory warehouse distributors, p. 263*

United States Asbestos Div. of Raybestos-Manhattan, Inc., Manheim, Pa. "Duraco," "Duraplastic" — *Illustrated & described, p. 106*

Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill. "Victopac"—*See adv. p. 99*

27 49 204 267 1108
1125 1263 1513 1591 1829
1889 2038 2047 2054 2338
2412 2416 3127 3234 4302
4607 4697 6129 6325 6344
6480 6797a

PACKING, Felt

Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. —*See adv. p. 96*

Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill.—*See adv. pp. 97 & 98*

Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill. "Victofelt"—*See adv. p. 99*

27 47 49 258 717
1250 2046 2047 4607 6480
6651

PACKING, Fibrous

Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. "Tanpac," "Adpasco" — *See adv. p. 96*

Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Felpak," "Karropak," "Wirepak"—*See adv. pp. 97 & 98*

Vellumoid Co., 54 Rockdale St., Worcester, Mass.—*See adv. p. 100*

Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill. "Victorite"—*See adv. p. 99*

27 49 204 519 1125
1146 1670 1829 1891 2047
3127 4607 6344 6475 6480

PACKING, Graphite

Emsco Asbestos Co., 206 S. Crawford St., Downey, Cal.—*See adv. p. 110*

PACKING, Leather

Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. —*See adv. p. 96*

Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill.—*See adv. pp. 97 & 98*

Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. "Grapho"—*See adv. p. 85*

27 49 1111 1124 2047
2441 2746 2808 4607 5571
6696

PACKING, Metallic

204 1125 1255 1314 2038
2439 3709 4607 6344

Packing, Paper

See Gaskets, Paper

PACKING, Plastic Metallic

Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. —*See adv. p. 96*

49 1255

PACKING, Rubber

Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. —*See adv. p. 96*

27 49 204 1146 1263
1274 1513 1591 1829 1893
2412 2416 3844 4607 4697
5049 6344

PADS, Body Foundation

Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. — *See adv. pp. 97 & 98*

47 549 801 2047 3422
4218 4607 6651

Pads, Felt, Anti-Squeak

See Lining, Body or Frame

PADS, Felt (Floor)

Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. — *See adv. pp. 97 & 98*

47 1159 2047 6651

PADS, Filling

(For service station use to absorb overflow in filling tank or radiator)

3995

PADS, Oil Drip (Floor)

6133

PADS, Pedal

(For applying to clutch and brake pedals to prevent feet from slipping)

649 1829 2158 3324 3855
3892 3903

PADS, Seat

(Cane, rubber, wicker or straw seats to be used over regular cushions)

291 1035 1893 1905 2773

Pads, Top

See Protectors, Top

Padding, Body

See Pads, Body Foundation

Padding, Frame

See Lining, Body or Frame

Padlocks

See Locks, Cabinet and Pad

Pails, Folding

See Buckets, Collapsible

Paint, Masking

See Compounds, Masking

Paint Removers

See Removers, Paint, Enamel and Varnish

Paint Sprayers

See Sprayers, Paint, Varnish and Lacquer

Paint Spraying Booths

See Booths, Spraying (Paint and Varnish)

PAINTS

(See also Enamels; also Lacquer)

Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie" — *See adv. p. 86*

Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio—*See adv. p. 31*

33 38 78 177 244
520 642 699 702 1022
1075 1186 1588 1667 2142
2689 2773 3059 3231 3523
3555 3714 3925 4313 4529
4673 4696 4711 4756 5136
5174 5514 5541 5566 6505

PAINTS, Aluminum and Bronze

Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio—*See adv. p. 31*

38 120 177 520 647
699 1022 1588 2144 2860
3046 3122 4022 4347 5120
5435 5541 5750 6206 6456
6725a

PAINTS, Exhaust Pipe, Muffler and Cylinder

American Chemical Paint Co., Brookside Ave. & Reading R.R., Ambler, Pa. "Kemick"—*Described, p. 171*

Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio—*See adv. p. 31*

33 38 143 177 531
699 702 1006a 1022 1303
2144 2389 2616 2648 2751
2773 2789 3046 3523 4347
4696 4711 5120 5413 5541
5667 6456

PAINTS, Rim

1667 2355 2616 3523 4564
4673 4722 5413

PAINTS, Rubber

(For refinishing rubber mats and matting and painting tires)

698 702 1006a 1508 1667
1922 2355 2412 2416 2616
2648 2784 3247 3523 3903
4347 4529 4673 5120 5413
5667 5707 5727 5750 6456

PAINTS, Storage Battery Terminal

536 3925 5425

PAINTS, Tire

See Paints, Rubber

PANELS, Door (For Model A Fords)

1319

Panels, Fibre

See Fibre, Hard; also Foundations, Body Upholstery

PANELS, Instrument Board, for Fords

1651

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

PANELS and SWITCHBOARDS, Charging
98 665 2343 2724 2766 6573 6664

PANS, Drip
(For placing under cars in garages or sales rooms to catch any oil or grease that may drip)
Brookins Mfg. Co., 770 Hawthorne St., Dayton, Ohio — *Illustrated & described, p.* 156
347 352 590 704A 734 1135 1632 1668 2362 2826 3294 3409 3448 3712 5635 5725 6611

PANS, Engine
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
1233 1668 3294 4751 5563 6814a

Pans, Tote
See Boxes, Tote (Sheet Metal)

Paper, Abrasive
See Paper, Emery and Sand

PAPER (Corrugated Sheets and Rolls)
2328 5572

PAPER, Emery and Sand
Clover Mfg. Co., 410 Main St., Norwalk, Conn.—*Described, p.* 172
519 591 1198 3921 6345 6600

PAPER, Flint
591 1031

Paper Gaskets
See Gaskets, Paper

PAPER, Masking
1587

Paper Washers
See Gaskets, Paper

Parcel Carriers
See Carriers, Parcel

Parking Lights
See Lamps, Cowl, Fender, Tail, Parking, Running Board and Clearance

PARTS and ACCESSORIES, Buyers of Surplus
(Advertisers in this publication only)
Keystone Sales Corp., 1826 Sixth St., Detroit, Mich.—*See adv. p.* 166
Manufacturers Surplus Outlet Co., 542 S. Dearborn St., Chicago, Ill.—*See adv. p.* 87
Warshawsky & Co., 1915-35 S. State St., Dept. CCD-7, Chicago, Ill. — *See adv. p.* 119

Parts, Battery Repair
See Parts, Storage Battery Repair

Parts, Bumper
See Bumper Parts

PARTS, Fuel Pump
C & H Mfg. Co., New Brunswick, N. J.—*Illustration & prices, p.* 54
Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p.* 90

PARTS, Magneto, Coil and Distributor
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO," "Red Ridge"—*Illustrated, p.* 243 *& Opposite Inside Back Cover.*
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p.* 251
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y.—*Illustration & Chilton & manufacturers' numbers, pp.* 246 & 247
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. — *See adv. p.* 85
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*Illustrated, p.* 249
Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill.—*See adv. p.* 46
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*See adv. p.* 30
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
161 178 228 337 339 746 1063 1257 1827 2073 2472 2619 2746 2781 3202 4317 4556 4601 4620 5550 5563 5626 6707

Parts, Orphan Car Repair
See page 342

Parts, Radio Jobbers
See Jobbers of Radio Parts

PARTS, Rim
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO"—*Illustrated, p.* 243 *& Opposite Inside Back Cover*
Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio—*See adv. p.* 73
Hubco Mfg. Co., 404 W. Conway St., Baltimore, Md.—*Illustrated, p.* 138
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
337 1602 2822 5563 6139 6677

PARTS, Speedometer
2073 4556 4620 5759 5832

PARTS, Starting Motor Drive
(See also Drives, Starter)
Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio—*Illustration & warehouses, p.* 131
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO"—*See adv. p.* 243 *& Opposite Inside Back Cover*
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. (For Ford & Chevrolet cars) — *Illustrated, p.* 119
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*See adv. pp.* 246 & 247
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p.* 118
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249
Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill.—*See adv. p.* 46
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*Illustrated, p.* 30
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (Springs)—*See adv. p.* 118
16 337 339 746 1827 1906 2033 2472 2619 2858 3104 3202 4317 4601 5494a 5563 5687

PARTS, Storage Battery Repair
235 560 684 1182 1219 1267 1286 1322 1892 2110 2130 2366 2438 3573 4317 4773 5062 5092 5194 5207 5425 5671 6107 6139 6355 6646 6678

PARTS, Universal Joint
16 116 4288

PARTS, Used
(Advertisers in this publication only)
Warshawsky & Co., 1915-35 S. State St., Dept. CCD-7, Chicago, Ill. — *See adv. p.* 119

Parts Washing Machines
See Machines, Washing (Metal Parts)

PARTS, Wheel
337

PARTS, Windshield Cleaner
Hackett Products Co., 407 Pine St., Providence, R. I.—*Illustrated & described, p.* 55
Signal Mfg. Co., 587 Washington St., Lynn, Mass.—*See adv. p.* 58
Trico Products Corp., 807 Washington St., Buffalo, N. Y.—*Illustration, description & prices, p.* 74
89 131 208 224 1135 1257 1500 2604 2773 3014 3150 3151 3324 3414 3563a 3708 3841 3957 5207 5451 5556 5687 6190

Paste, Masking
See Compounds, Masking

PATCHES, Blowout (Wing)
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie" — *See adv. p.* 86
Gates Rubber Co., 999 S. Broadway, Denver, Col.—*See adv. p.* 86

PATCHES, Tire Repair
(Advertisers in this publication only)
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134
Gates Rubber Co., 999 S. Broadway, Denver Col.—*See adv. p.* 86
Shaler Co., 728 Fourth St., Waupun, Wis.—*Illustrated, p.* 165

PATCHES, Top Repair
(For repairing mohair or other fabric tops)
Biltmore Mfg. Co., 1747 Central Ave., Cincinnati, Ohio. "Stik-Tite"—*See adv. p.* 47
291 644 1905 2602 2616 2758 2773 2781 2784 2860 4025 4711 5413 5722 6143 6456

PATCHES, Tube Repair
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie" — *See adv. p.* 86
Gates Rubber Co., 999 S. Broadway, Denver, Col.—*See adv. p.* 86
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
Shaler Co., 728 Fourth St., Waupun, Wis.—*Illustrated, p.* 165

Pedal Depressors
See Depressors, Brake Pedal

Pedal Extensions
See Extensions, Pedal

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Pedal Pads
See Pads, Pedal

Pedal Plates
See Plates, Heel and Pedal

Pedal Shields, for Fords
See Shields, Air Draft Pedal, for Fords

Pedals, Accelerator
See Pedals, Special Accelerator

PEDALS, Horn and Cut-Out
1287 1823 4682 4757 5733

PEDALS, Special Accelerator
40 131 1656 1823 2158
2404 4215 6134 6151 6218

PEDALS, Starter, for Fords
224 5105 6218

Pencils, Striping
See Tools, Striping

Pennant Holders
See Holders, Flag, Pennant and Emblem

Pennants
See Flags, Pennants and Emblems

Photometers, Headlight Testing
See Testers, Headlight, Photometric

Pinion Shaft Bearing Cages
See Cages, Pinion Shaft Bearing

Pinion Shafts
See Shafts, Propeller and Rear Axle

Pinions, Metal
See Gears and Pinions, Metal

Pinions, Speedometer
See Gears and Pinions, Speedometer

Pins, Clevis
See Pins, Yoke

PINS, Cotter
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Campbell"—*See adv. p.* 40
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "Thrift-Pak"—*See adv. pp.* 246 & 247
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. (Jobbers)—*Illustrated, p.* 148
142 739 2033 2472 2702
2756 3420 4254 5563 5599
5753 6559 6586 6662 6679

PINS, Crank Ratchet, for Fords
134

PINS, Fan Pulley, for Fords
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59

Pins, King
See Bolts, Steering Knuckle

PINS, Piston
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permatite-Diamond"—*Illustrated, p.* 10
Burgess-Dall Corp., 517 Peyton St., Geneva, Ill. "B-N" (Sole distributors)—*Illustration, branch offices & Chilton & manufacturers' numbers, p.* 203
Emsco Asbestos Co., 206 S. Crawford St., Downey, Cal.—*Illustration & warehouse stocks, p.* 110
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p.* 118
McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo.—*See adv. p.* 113
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
14 121 170 256 799
800 1872 1889 3104 3284
3728 3755 3775 3913 3954
4515 5491 5563 5652 6141
6192 6482

PINS, Taper
United Screw & Bolt Corp., Cleveland, Ohio & Chicago, Ill.—*Illustrated, p.* 122
351 598 1128 2702 3453
3986 4255 4758 5093 5696
5700 6323a 6644 6794

PINS, Yoke
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio.—*Illustrated, p.* 124
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. (For Ford & Chevrolet cars) — *Illustrated, p.* 119
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.—*See adv. p.* 279
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
1626 1906 2056 2702 4665
4688 5049 5563

Pipe Cutters
See Cutters, Pipe

Pipe Fittings
See Fittings, Tube (Copper or Brass)

Pipe Flaring Tools
See Tools, Tube Flaring

Pipe Vises
See Vises, Pipe

Pipe Wrenches
See Wrenches, Pipe

Pipes, Blow
See Blow Pipes, Brazing, Welding and Cutting

Piston Pin Repair Tools
See Tools, Piston Pin

Piston Pins
See Pins, Piston

Piston Repair Tools
See Jigs, Connecting Rod Aligning; Machines, Piston Rechamfering; Machines, Piston Turning and Grinding; Tools, Piston Fitting; Vises, Piston

Piston Ring Expanding Springs
See Rings, Piston Ring Expanding or Packing

Piston Ring Repair Tools
See Gages, Piston Ring; Tools, Piston Ring; Vises, Piston Ring

Piston Rings
See Rings, Piston

PISTONS, Finished and Machined
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permite," "Unitype"—*Illustrated, p.* 10
Burgess-Dall Corp., 517 Peyton St., Geneva, Ill. "Dall" (Sole distributors)—*Illustration, branch offices & Chilton & manufacturers' numbers, p.* 203
Dall Motor Parts Co., Henry Ave. & P. R.R., Cleveland, Ohio.—*Illustration, branch offices & Chilton & manufacturers' numbers, p.* 203
DeLuxe Products Corp., 2001 Lake St., La Porte, Ind.—*Illustrated, p.* 110
Emsco Asbestos Co., 206 S. Crawford St., Downey, Cal.—*Illustration & warehouse stocks, p.* 110
McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo. (Also sole distributors of "Nelson Bohnalite" pistons, for Bohn Aluminum & Brass Corp., 2512 E. Grand Blvd., Detroit, Mich.)—*See adv. p.* 113
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
14 120 121 169 170
256 682 799 1229 1503
1556 1569 1889 2823 3258
3284 3728 3913 3986a 4214
4515 4524 5050 5199 5461a
5563 5652 5748 5779a 6141
6165a 6209 6320 6728 6758

PITS, Crankcase Service
3793 5526

Planer Tool Holders
See Holders, Lathe and Planer Tool

Planer Tools
See Tools, Lathe and Planer

Plate Glass
See Glass, Polished Plate

Plates, Clutch
See Discs, Clutch (Steel)

PLATES, Demountable Rim Wedge
(Small stamped plates or shims to be used under the rim wedges to insure their tightness)
6677

PLATES, Differential Assembly, for Fords
100 6745

PLATES, Heel and Pedal
4215 4506 5654

PLATES, Hub, for Fords
3286

PLATES, Kick or Scuff
120 1842 2121 2404 2412
2773 3016 3988 4215 4506
6145 6627 6643a

PLATES, Load Data
2121 4764A

PLATES, Rear End Safety Phrase
4227

PLATES, Step
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. "Fits-All"—*See adv. p.* 170
120 131 163 649 1648
1842 2384 2404 2412 2600a
2773 3016 3957 3988 4215
4506 4525 5108 5654 6145
6151 6217 6218 6627 6643a

PLATES, Surface
100 2113 3256 5536 6104

PLATES, Town
2432 3966 3988 4215 4227
5522 5666 6145 6151

PLIERS
(Advertisers in this publication only)
Peck, Stow & Wilcox Co., 217-313 Center St., Southington, Conn. "Pexto"—*See adv. p* 160
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Pliers, Fender Repair
See Tools, Body and Fender Repair

Pliers, Terminal
See Tools, Storage Battery Repair

PLIERS, Tire Chain
(See also Tools, Tire Chain Repair)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Weed"—*See adv. p.* 40
St. Pierre Chain Corp., Frank St., Worcester, Mass. "Giant"—*Illustrated, p.* 38
142 1237 5420 6330

PLOWS, Snow
(For attaching to trucks)
28 527 2413 2697 3433
3764 5187 6569 6601

Plug Gages
See Gages, Plug and Ring

PLUGS, Charging
(For electric vehicles)
2343 3311 5215

PLUGS, Expansion
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio.—*Illustrated, p.* 124

Plugs, Lamp
See Connectors, Lamp (Electric)

PLUGS, Radiator Testing
100 1343 5032 6187

PLUGS, Spark
Bosch Magneto Corp., American, 3664 Main St., Springfield, Mass.—*Illustration, description & branch offices, pp.* 92 & 93
Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y.—*Illustration & distributors, p.* 91
Champion Spark Plug Co., Upton Ave., Toledo, Ohio—*Illustrated, Back Cover*
Rajah Co., Locust Ave. & Nelson St., Bloomfield, N. J.—*See adv. p.* 92
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
6 70 93 616 679
689 690 1005 1088 1203
1326 1542 1615 1894 2162
2361 2619 2861 3158 3471
3477 3492 3992 4019 4515
4613 5036 5078 5563 5655
5767 6672 6679

PLUGS, Tire Repair
1589 2033 3903 6615

PLUSH, Upholstery
725 4542

POCKETS, Door, for Fords
210 1192 1905 2139 2773
4787

POINTS, Contact
(Contact points and screws of platinum or platinum substitute)
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO," "Red Ridge"—*See adv. p.* 243 *& Opposite Inside Back Cover*
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*See adv. pp.* 246 & 247
K-E-M Mfg. Co., 247 W. 55th St., New York N. Y.—*See adv. p.* 249
Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill. "A. E. S"—*See adv. p.* 46
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*Illustrated, p.* 30
178 228 337 524 746
1063 1827 2472 3202 3207
3287 4317 4556 4601 5550

POLISHERS, Disc, for Lacquer
(Felt, sheepskin or lamb's wool, for use in electric drills)
1031 3921 6727

Polishers, Electric Portable
See Drills, Grinders and Polishers, Electric Portable; also Tools, Metal Finishing (Portable Electric)

POLISHERS, Hydraulic Brake Cylinder
2462

POLISHES, Automobile Body
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Liquid Veneer Corp., 822 Liquid Veneer Bldg., Buffalo, N. Y. "Washine"—*Illustration & prices, p.* 49
Puritan Soap Co., 500 Exchange St., Rochester, N. Y.—*See adv. p.* 74

POLISHES, Metal
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Puritan Soap Co., 500 Exchange St., Rochester, N. Y. "Puritan"—*See adv. p.* 74

Polishing Cloths
See Wipers and Polishing Cloths

Polishing Compounds
See Compounds, Rubbing and Polishing

Polishing Discs
See Polishers, Disc, for Lacquer

Polishing Felt
See Felt, Polishing and Rubbing

Polishing Machines, Floor
See Machines, Floor (Electric)

POSTS, Lamp (Filling Station)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p.* 101
817 2127 3793 4784 6308

Pots, Solder Melting
See Furnaces, Soldering

Power Take-Offs
See Take-Offs, Power

Preheaters, Engine
See Heaters, Engine Cooling System

PRESSES, Arbor
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco"—*See adv. p.* 142
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40
35 142 290 545 551
1023 1082 2640 2786 2835
3256 3439 3549 3774 3794
3831 5531 6611 6745

PRESSES, Axle
(For wheel alignment)
581 814 2835

Presses, Broaching
See Presses, Forcing

Presses, Crankshaft Straightening
See Presses, Straightening (Crankshaft)

PRESSES, Forcing
545 2712

PRESSES, Sheet Metal Working
46 664 2041 3439 3774
3543a 4282 4309 5683 6567

PRESSES, Solid Truck Tire Applying
1650 2854 6629 6671

Presses, Stamping
See Presses, Sheet Metal Working

PRESSES, Storage Battery Plate
559

PRESSES, Straightening
290 2835 3256 3986 5662
6611

PRESSES, Straightening (Crankshaft)
3774 5662

PRIMERS, Engine
(See Heaters, Mixture; also Mixers, Economizers or Agitators and Auxiliary Air Valves)
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. (Combination primer and starter)—*See adv. p.* 142
Dole Valve Co., 1913-33 Carroll Ave., Chicago, Ill.—*Illustrated, p.* 63
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. "Primeur"—*See adv. p.* 170
35 270 344 1327 1618
3016 3563 4681 4705

Priming Cups
See Cups, Priming

Priming Fluids
See Fluids, Priming

PROPELLER SHAFT BOXES
5401

Propeller Shafts
See Shafts, Propeller

Protectors, Car (Repairmen's)
See Covers, Repairmen's

PROTECTORS, Door
(Leather or fabric pads to protect the finish of the door)
338 644 692 1192 1319
1905 2441 2773 2860

PROTECTORS, Gear Shift Grease and Oil
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59

Protectors, Spring
See Covers, Spring

PROTECTORS, Top
(Strips of felt or other soft material to be placed between top bow and top covering)
291 2860 4663a 6133

PULLERS, Axle Housing, for Fords
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
100 6208

Pullers, Battery Connector
See Tools, Storage Battery Repair

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

PULLERS, Bearing
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
100 242 1019 1625 2841 3256 3989 4317 6208 6616 6745

PULLERS, Bearing (Front Wheel), for Fords
1002 4241

Pullers, Bushing
See Extractors, Bushing

Pullers, Car
See Winches and Blocks, Car Extracting

PULLERS, Clutch Disc Drum, for Fords
100 4241 6745

PULLERS, Cotter Pin
643 720 2017 2410 4549 4726 5777 6559 6825

PULLERS, Driveshaft
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163

PULLERS, Gear and Wheel
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco"—*Illustration & prices, p.* 142
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. (Sole distributors)—*See adv. p.* 279
Simmons Mfg. C., 3405 Perkins Ave., Cleveland, Ohio.—*See adv. p.* 118
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
5 35 91 142 169 224 518 672 681 765 1505 1639 1669 2033 2676 2723 2795 2822 2835 2841 3201 3203 3256 3774 3831 3887 3989 4241 4600 4672 4726 5049 5155 5214 5451 5481 5536 5563 5611 5665a 5753 6185 6208 6559 6586a 6616 6717a 6745 6825

Pullers, Piston Pin
See Tools, Piston Pin Removing and Installing

Pullers, Separator
See Tools, Storage Battery Repair

PULLERS, Spring Perch (For Model A Fords)
4241 6745

Pullers, Wheel
See Pullers, Gear and Wheel

Pulleys and Sheaves
See Sheaves and Pulleys

Pump Parts and Fittings
See following heads:
Connections, Tire Pump
Couplings, Magneto, Generator and Water Pump
Cups, Leather
Hose, Air, Tire Inflating (Rubber & Fabric)
Hose Assemblies, Pump
Gaskets
Impellers, Water Pump
Packing
Shafts, Transmission, Clutch and Pump

Pumps, Air
See Pumps, Tire; also Stations, Air or Water

PUMPS, Barrel Emptying
(For emptying oil or gasoline barrels or transferring contents to tanks)
86 295 600 658 700 817 1212 1300 2000 2467 3713 3846 4538 5175 5510 6165 6604 6656

Pumps, Carburetor
See Systems, Fuel Feed (Pump Type)

PUMPS, Gasoline (Curb)
176 600 700 817 1169 1231 1300 1533 1899 2370 2422 2681 3155 3238 3713 3846 3917 4246 4260 5112a 5510 5526 5640 5698 6165 6604 6656

Pumps, Gasoline and Oil
See Tanks and Systems, Gasoline and Oil Storage; also Tanks, Gasoline (Portable); also Tanks, Oil (Portable)

Pumps, Grease (Portable)
See Lubricators, Portable (High Pressure); also Lubricators, Hand

Pumps, Oil Circulating
See Lubricators or Oil Pumps, Hand

Pumps, Tire (Automatic)
See Inflators, Tire (Automatic)

PUMPS, Tire (Engine Driven)
3241 3513

PUMPS, Tire (Hand)
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.—*See adv. p.* 63
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. "Wixon"—*See adv. p.* 170
221 346 723 788 1207 1505 1801 2394 3002 3016 3151 3958 4326 4327 4757 5178 5529 6497

PUMPS, Water Circulating
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. (For Chevrolet cars)—*Illustrated, p.* 119
656 1906 2384 2700 3534

PUMPS, Water Circulating, for Fords
(Auxiliary water circulators)
656 2000 2672 2700 3116 5135 5166 5212 5715

PUNCHES, Arch or Washer
3336 4549

PUNCHES, Center, Prick and Drift
Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind.—*See adv. p.* 160
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley - Atha." (Sole distributors)—*Illustrated & described, p.* 149
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill.—*See adv. p.* 148
9 643 681 1063 1132 1148 1299 1324 1921 2017 2084 2410 2627 2841 3336 3833 3918 4003 4549 4600 4644 4726 5002 5035 5602 5709 5719 5777 6208 6214 6311 6461 6470 6489 6491 6497 6503 6679

PUNCHES AND DIES, Standard
6701

PUNCHES, Hand
Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind.—*See adv. p.* 160
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
778 1921 2826 3336 3905 4287 4309 4644 6208 6701

Punches, Standard
See Punches and Dies, Standard

Punches, Washer
See Punches, Arch or Washer

PURIFIERS, Oil (For Attaching to Engine)
(Garage or Repair Shop)
(See also Reclaimers or Rectifiers, Oil)
6 1341 1840 2024 2630 3205 3872 3998 5589 5761 6823

PURIFIERS, Oil, for Fords
6 224 1840 2033 2384 2402

Push Rods
See Rods, Valve Lift (Adjustable)

PUTTY, Bedding
(For setting stationary lights in closed cars)
33 652 1619 2049 5136

Putty, Rubber
See Compounds, Tire Repair

Pyroxylin Finishes
See Lacquer

Races, Ball
See Cups and Cones, Ball

Racks, Battery Burning
See Tools, Storage Battery Repair

RACKS, Bus Baggage
295 6145 6627

Racks, Luggage
See Racks, Trunk

RACKS, Metal Tool, Stock and Tire
213 304 622 1037 1555 1668 1893 2345 2705 3113 3488 3533 3564 3571 3782b 3840 4253 4284 4315 4350 4654 5635 5725 5728 5753 6124 6228 6621 6660

Racks, Parts or Tool
See Racks, Metal Tool, Stock and Tire

RACKS, Service and Greasing (Automobile)
(See also Lifts, Auto)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*Illustrated, p.* 40
142 2474 3256 3309 3774 3793 4784 5635 6611

RACKS, Trunk
Bellevue Mfg. Co., Ashford Ave., Bellevue, Ohio—*Illustrated & described, p.* 70
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass.—*Illustrated, p.* 48
595 641 644 704a 708 1576 2003 2058 2384 2392 2628 2773 2802 3410 3540 3556 3870 3943 4270 4288b 4751 5552 5692 6370 6556

RACKS, Trunk and Luggage Carriers, for Fords
Bellevue Mfg. Co., Ashford Ave., Bellevue, Ohio—*Illustrated & described, p.* 70
595 2391 2392 3943 5191 5552

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Radiator Parts, Attachments, Compounds, Service Station Equipment, etc.
See following heads:
Alcohol, Denatured
Cans, Radiator Filling
Caps, Radiator
Cement, Radiator Repair
Compounds, Anti-Freezing
Compounds, Radiator Cleaning
Condensers and Relief Valves, Radiator
Cores, Radiator
Fans, Radiator
Faucets, Radiator Filling
Fenders or Guards, Truck Radiator
Guns, Radiator Cleaning (High Pressure)
Heaters, Radiator
Hose, Radiator (Rubber and Fabric)
Lacing, Hood
Leather, Rawhide Lace
Lights, Motor Meter
Locks, Radiator Cap & Thermometer
Meters, Water Temperature Indicating
Monograms, Initials and Emblems
Ornaments, Radiator
Pans, Engine
Plugs, Radiator Testing
Screens, Radiator Protection
Shutters
Spouts, Radiator and Gasoline Tank
Strainers, Radiator and Tank Filler
Tongs, Radiator Fin Straightening
Valves, Reverse Radiator Flushing

Radiator Shields
See Screens, Radiator Protection

RADIATORS, Engine Cooling
Corcoran Mfg. Co., Dept 29, Section & Foraker Sts. (Norwood), Cincinnati, Ohio. "Peerless." (For Ford & Chevrolet cars) — *Illustrated, p.* 126
Hexcel Radiator Co., 57 Erie St., Milwaukee, Wis. (For Ford & Chevrolet cars)—*See adv. p. 126*
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
584 1294 2032 2089 2304
2659 2733 3402 3709 3724
3929 4669 5172 5537 5563
6187 6750 6814a 6819

RADIO SETS
(Advertisers in this publication only)
Sparks-Withington Co., Jackson, Mich. "Sparton"—*See adv. p.* 58

Radius Rod Silencers
See Anti-Rattlers, Radius Rod

Rags, Wiping
See Wipers and Polishing Cloths

Rails, Coat
See Rails, Robe or Coat

Rails, Foot
See Rests or Rails, Foot

RAILS, Robe or Coat
(Metal rails or leather or fabric straps for attaching to back of front seats)
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. —*See adv. p.* 48
295 692 725 1048 1124
1309 2453a 2628 3016 3027
4296 4358 5206a 5627 5731
6783

RAILS or STRIPS, Trunk
(Metal rails or strips to fasten to back of car to prevent trunk or other luggage from marring the finish of the body)
131 295 1628 2003 2404
2773 4215 5654 5731 6145
6627 6783

Rams, Grease
See Drivers, Grease

Rasps
See Files and Rasps

Reamer Drives
See Drives, Reamer

Reamer Grinders
See Machines, Grinding, Reamer and Cutter

Reamer Stones
See Tools, Reamer Sharpening

Reamers, Battery Connector
See Tools, Storage Battery Repair

Reamers, Camshaft Aligning, for Fords
See Reamers and Jigs, Camshaft Aligning, for Fords

Reamers, Connecting Rod Bearing
See Reamers, Main Bearing and Connecting Rod

Reamers, Cylinder
See Reamers and Jigs, Cylinder

REAMERS (Expansion, Solid and Adjustable)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. "Paradox," "Peerless," "Quick-Set," "Spirex"—*Illustration, branch offices & sizes, p.* 158
Millersburg Reamer & Tool Co., Millersburg, Pa. "Smooth-Kut" — *Illustration, specifications & prices, p.* 159
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.—*Illustrated, p.* 158
124 749 756 767 819
1006 1076 1185 1253a 1919
2113 2311 2388 2456 2640
3246 3256 3271 3830 3904
3986 4263 4300 4758 5065
5083 5453 5485 5700 5753
6104 6208 6312 6343 6471
6593 6605 6697 6745

REAMERS, Main Bearing and Connecting Rod
124 336 756 3271 3904
3986 5536 6104 6343 6593
6745

REAMERS, Power
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Reama"—*See adv. p.* 149
6461

REAMERS (Service Sets)
124 756 1076 2113 3256
3271 3904 5753 6343 6593
6605

Reamers, Valve Seat
See Tools, Valve Seat Refinishing

REAMERS and JIGS, Camshaft Aligning, for Fords
3256 6745

REAMERS and JIGS, Cylinder
124 1076 2113 3271

Rebabbitting Connecting Rods
See Bearings, Rebabbitted

Rebabbitting Jigs
See Jigs, Main Bearing and Connecting Rod Babbitting

Rebabbitting Machines
See Machines, Babbitting (Main Bearing and Connecting Rod)

Reboring Machines
See Machines, Cylinder Reboring

Rebound Straps
See Straps, Rebound

RECEPTACLES, Ash
(Advertisers in this publication only)
Casco Products Corp., 1333 Railroad Ave., Bridgeport, Conn. (Combination ash receiver and cigar lighter) — *Illustration, description & prices, p.* 43
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y. (Combined with cigarette holder & wireless lighter)—*Illustrated & described, p.* 150

Rechargers, Magnet
See Chargers, Magneto Magnet

RECLAIMERS or RECTIFIERS, Oil (Garage or Repair Shop)
1545 2747 3138 4211 5525
5589

RECORDERS, Vehicle Movement
(For recording time vehicle is used)
1131 4528 5508

Records, Sales (Forms)
See Books and Forms, Accounting

RECOVERS, Top
(Advertisers in this publication only)
Automotives, Inc., 30 Euclid Ave., Newark, N. J. "A-1" — *See adv. p.* 47

Rectifiers, Alternating Current
See Chargers, Battery Service Station (Bulb Type)

Rectifiers, Oil
See Purifiers, Oil, for Attaching to Engine; also Reclaimers or Rectifiers, Oil (Garage or Repair Shop)

Reducers, Battery Post
See Tools, Storage Battery Repair

Reel Lights
See Lamps, Trouble

REELS, Automatic Extension Lamp
229

REFACERS, Valve (Electric)
(For grinding engine valves; for hand valve refacers—see Refacers, Valve (Hand); also Tools, Valve Grinding)
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio. "U. S."—*See adv. p.* 17
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*Illustration & prices, p.* 149
83 655 1058 1143 2384
3256 3518 5134 5441 5536
5578 6332 6459 6461 6745
6825

REFACERS, Valve, Hand (Cutters)
83 1327 6825

REFACERS, Valve, Hand (Grinders)
5134 5753

REFLECTORS, Deflecting or Dimming
(For other dimming devices—see Dimmers or Deflectors, Headlight; also Visors, Headlight)
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*See adv. p.* 64
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
131 154 1624 3200 3759
5563

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

REFLECTORS, Headlight, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p. 118*
1624 5563

REFLECTORS, Safety
(For attaching to cars)
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.—*Description & prices, p 57*

REFLECTORS, Safety
(For road use)
(Advertisers in this publication only)
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.—*Illustration, description & prices, p. 57*
1510 4677 5063

Reflectors, Traffic Signal
See Finders, Traffic Signal

REGISTERS, Autographic and Manifold
182 315 1849 2620 4224
4528 5110 5691 6316

REGISTERS, Fare
1866 3050 4224 4528

Regrinding of Ball Bearings
See Bearings, Ball (Reground)

REGULATORS, Carburetor (Thermostatic)
4705

Regulators, Steam Pressure
See Controllers, Vulcanizer Steam Pressure

REGULATORS, Water Circulating
(See also Shutters, Automatic Radiator)
1190 1528 1618 1925

REGULATORS, Window
2642

Reliners, Brake
See Machines, Brake Relining

Remagnetizers, Magnet
See Chargers, Magneto Magnet

Removers, Bushing
See Extractors, Bushing; also Saws, Bushing Removing

REMOVERS, Paint, Enamel and Varnish
American Chemical Paint Co., Brookside Ave. & Reading R.R., Ambler, Pa. "Stripple"—*See adv. p. 171*
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie" —*See adv. p. 86*
33 38 143 196 531
627 699 737 1075 1079
1524 1588 1667 2689 3041
3555 4225 4313 4504 4722
4756 5413 5514 5541 5704
5727 6746

REPORTS, Used Car Market
National Used Car Market Report, Inc., 1315 S. Michigan Ave., Chicago, Ill.—*Illustration, description & prices, p. 62*

Reseaters, Valve
See Tools, Valve Seat Refinishing

RESTS, Arm
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. —*Described, p. 48*
26 620 751 2628 5670
6686

RESTS, Cushion Back
(Special removable cushions for back rests for drivers' seats)
Automotives, Inc., 30 Euclid Ave., Newark, N. J.—*See adv. p. 47*
278 291 338 664 671
1035 1192 1318 1319 1666
1838 1905 2006 2139 2758
2773 3208 3849 3862 3996
4305 4308 4628 4663a 4787
5460 6133 6615

RESTS, Heel
1648 1829 1909 2404 3324
4215 5654

RESTS or RAILS, Foot
(For heated foot rests—see Heaters, Automobile)
40 295 1309 1648 2453a
3016 3855 4296 5654 5731
6559 6627 6783

RETAINERS, Ball
4312

RETAINERS, Rear Axle Grease
(For preventing leakage of grease from rear axle on to brakes, wheels or tires)
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin" (For Chevrolet cars)—*Illustrated & described, p. 59*
1111 3537

RETAINERS, Rear Axle Grease, for Fords
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated & described, p. 59*
1002 1111 2053 2634 3537
4607 5051 5692 5715 6185

RETAINERS, Valve Spring
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio.—*Illustrated & described, p. 124*
1626 4665 5051 5718

Reverse Current Cutouts
See Cut-Outs, Reverse Current

RHEOSTATS
(Used with rectifiers or motor generator sets—see also Chargers, Battery Service Station)
636 2123 2343 2766 6573
6664

Rim Anvils
See Anvils, Rim

Rim Bolts
See Bolts, Demountable Rim

Rim Paints
See Paints, Rim

Rim Parts
See Parts, Rim

Rim Shims
See Plates, Demountable Rim Wedge

Rim Tools
See Tools, Demountable Rim Contracting

Rim Wedge Plates
See Plates, Demountable Rim Wedge

RIMS, Demountable
198 1187 2070 3534 6677

RIMS, Headlamp Door
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*See adv. p. 64*
644 1624 1905 3200

RIMS, Quick Detachable
198 1187 2070 2416

Rims, Removable
See Rims, Demountable

RIMS or FELLOES, Steel
2070 3534

Ring Gages
See Gages, Plug and Ring

Ring Gears, Starter
See Gears, Starter

RINGS, Piston
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permalite"—*Illustrated, p. 10*
American Hammered Piston Ring Co., Bush & Hamburg Sts., Baltimore, Md. — *Illustration & prices, p. 2*
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. — *Illustrated, p. 116*
Continental Piston Ring Co., 276 Walnut St., Memphis, Tenn. — *Illustrated & described, p. 115*
Hebert Mfg. Co., Central St., Franklin, N. H. "D. W.," "Twingroove," "Overflow" — *Illustrated & described, p. 114*
McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo. "Superoyl," "Step Cut Compression"—*See adv. p. 113*
Ohio Hammered Piston Ring Co., 2401 Superior Ave., N. W., Cleveland, Ohio—*Illustrated, p. 113*
Piston Ring Co., Sanford & Keating Sts., Muskegon, Mich. "Quality," "Drainoil," "Sta-Tite," "Double-Slot"—*Illustrated & described, p. 14*
Renu Hetepruf Co., Holland, Mich. "Re-Nu," "Hete-Pruf" — *Illustrated & described, p. 29*
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p. 118*
Superior Piston Ring Co., 6423 Epworth Blvd., Detroit, Mich. "Mor-Power" — *Illustrated & described, p. 114*
Wel-Ever Piston Ring Co., Speilbusch Ave., near Jackson, Toledo, Ohio. "Flexo"—*Illustrated & described, p. 115*
121 160 312 544 794
1090 1273 1578 1654 2637
2672 2690 2799 3136 3284
3492 3728 3817 4299 4520
4556 4619 4663 4719 5039
5098 5123 5199 5440 5563
5573 5715 5726 5766 5812
6144 6192 6302 6338 6602
6625 6689 6717 6723

RINGS, Piston Ring Expanding or Packing
(Spring or fabric ring designed to be placed under old piston ring to give increased pressure or prevent leakage)
Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio. "Peppy" — *Illustration & warehouses, p. 131*
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio.—*See adv. p. 124*
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrations & prices, p. 59*
Wel-Ever Piston Ring Co., Speilbusch Ave., near Jackson, Toledo, Ohio. "Flexo"—*Described, p. 115*
16 134 312 1626 1654
3492 3537 4665 5039 5051
5098 5199 5210 5425 5573
6144 6192 6343 6625

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

RINGS, Wire Wheel
Globe Machine & Stamping Co., 1212 W. 76th St., Cleveland, Ohio.—*Illustrated & described, p. 67*

Rivet Burrs
See Burrs, Rivet

Rivet Clippers
See Clippers, Bolt and Rivet

Rivet Sets
See Sets, Rivet.

RIVETERS, Ring Gear
3774

Riveting Machines
See Machines, Brake Relining

Riveting Tools, Gear Ring
See Tools, Gear Ring Riveting

RIVETS, Aluminum
Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P. O.), Chicago, Ill.—*See adv. p. 121*
Emsco Asbestos Co., 206 S. Crawford St., Downey, Cal.—*Illustration & warehouse stocks, p. 110*
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p. 118*
Manufacturer's Belt Hook Co., 1315-21 W. Congress St., Chicago, Ill. "L-X"—*Illustrated, p. 120*
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. — *See adv. p. 279*
Shelton Tubular Rivet Co., Shelton, Conn.—*Illustrated, p. 121*
120 1126 1889 3104 3780
3891a 4248 4655 5049 5214
5520 5533 5765

RIVETS, Brass and Copper
Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P. O.), Chicago, Ill.—*See adv. p. 121*
Emsco Asbestos Co., 206 S. Crawford St., Downey, Calif.—*Illustration & warehouse stocks, p. 110*
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog"—*See adv. p. 118*
Manufacturer's Belt Hook Co., 1315-21 W. Congress St., Chicago, Ill. "L-X"—*Illustrated, p. 120*
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. — *See adv. p. 279*
Shelton Tubular Rivet Co., Shelton, Conn.—*Illustrated, p. 121*
292 1083 1095 1126 1889
2432 3104 3780 3891a 4248
4655 4688 5049 5104 5214
5520 5533 5765 6129

RIVETS, Iron and Steel
Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P. O.), Chicago, Il.—*See adv. p. 121*
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*See adv. p. 124*
Emsco Asbestos Co., 206 S. Crawford St., Downey, Calif.—*Illustration & warehouse stocks, p. 110*
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire" —*Branches, p. 123*
284 691 1126 1158 1234
1626 1889 2432 3780 4254
4536 4655 4688 5069 5213
5533

RIVETS, Tubular and Clinch
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co"—*Illustrated, p. 117*
Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P. O.), Chicago, Ill.—*See adv. p. 121*
Manufacturer's Belt Hook Co., 1315-21 W. Congress St., Chicago, Ill. "L-X"—*Illustrated, p. 120*
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. — *See adv. p. 279*
Shaler Co., 728 Fourth St., Waupun, Wis.—*See adv. p. 165*
Shelton Tubular Rivet Co., Shelton, Conn.—*Illustrated, p., 121*
Tubular Rivet & Stud Co., 87 Lincoln St., Boston, Mass. "T. R. & S."—*Illustrated, p. 120*
101 292 360 1126 1518
2432 3780 3891a 4018 4248
4655 5049 5214 5520 5533
5765 6144a 6211 6797a

Roadlights, Turning
See Lamps, Road Light (Turning)

Robe Cords or Rails
See Rails, Robe or Coat

Robe Locks
See Locks, Robe

ROBES, Automobile Lap
(Advertisers in this publication only)
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. —*Described, p. 48*
Wiese & Co., Wm., 234 W. 56th St., New York, N. Y.—*See adv. p. 44*

Rod, Aluminum
See Aluminum, Sheet, Rod and Ingot

Rod Cutters
See Cutters, Rod and Bar

Rod Ends
See Ends, Rod

RODS, Connecting
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Chevrolet cars)—*See adv. p. 118*
790 2308 2693 4310 5563

RODS, Connecting, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio — *See adv. p. 118*
2693 4310 5563

Rods, Connecting, Rebabbitted
See Bearings, Rebabbitted

Rods, Fibre
See Fibre, Hard

Rods, Push
See Rods, Valve Lift (Adjustable)

RODS, Rear Axle Truss, for Fords
(For reinforcing or strengthening rear axle)
774 5731 6559

Rods, Rebabbitted Connecting
See Bearings, Rebabbitted

Rods, Steering
See Links, Steering

Rods, Truss, for Fords
See Rods, Rear Axle Truss, for Fords

RODS, Valve Lift (Adjustable)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p. 118*
2799 3954 5461a 5563 5718
6717

RODS, Welding
Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y.—*See adv. pp. 168 & 169*
94 287 1069 1130 2684
3049 3345 3774 4011 4565
5503 5730 5811 6176 6301
6304a

ROLLERS, Curtain
578 1309 2665 5116 6500
6659

ROLLERS, Lumber
(Roller bed equipment for trucks and trailers)
4694 5446 5668

Rolls, Tool
See Bags or Rolls, Tool

Roof Trusses
See Trusses, Roof

ROOFING, Metal
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p. 101*

ROPE or CABLE, Bronze Wire
(For operating brakes or cutouts)
4700

ROPE or CABLE, Steel Wire
(For operating brakes or cutouts)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Tru-Lay" (With "Tru-Loc" fittings)—*See adv. p. 40*
138a 142 190 5163

ROPES, CHAINS and BARS, Tow
(Advertisers in this publication only)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Acco," "Manley—*Illustrated, p. 40*
Cleveland Chain & Mfg. Co., Penna. R. R. & Henry Rd., Cleveland, Ohio —*See adv. p. 38*
Lion Chain Co., 3124 W. 51st St., Chicago, Ill. "Cub" — *See adv. p. 42*
Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco"—*Branch offices, p. 107*

Rotors, Timer, for Fords
See Brushes, Timer, for Fords

Rubbing Compounds
See Compounds, Rubbing and Polishing

Rubbing Felt
See Felt, Polishing and Rubbing

Rubbing Machines, Pneumatic
See Machines, Rubbing (Pneumatic)

Rules, Gasoline Level Indicating
See Gages, Gasoline (Rules)

RULES, Steel
Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I. — *See adv. p. 162*
116a 752 2410 3559 3988
5719 6311

Rumble Seats
See Seats, Rumble

Rumble Seat Slickers
See Slickers, Rumble Seat

Running Board Shields
See Shields, Running Board

Running Boards
See Boards, Running

Running Gear Aligners
See Gages, Wheel and Axle Aligning

Running-In Machines
See Machines, Burning-In

Runways, Service
See Racks, Service and Greasing

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Rust Preventing and Removing Compounds
See Compounds, Rust Preventing and Removing

Salts, Soldering
See Flux, Soldering

Sand Paper
See Paper, Emery and Sand

Sandpapering Machines, Floor
See Machines, Floor (Electric)

Sanding Machines, Portable
See Machines, Sanding (Portable Pneumatic)

Saw Blades
See Blades, Saw (Hack)

SAWS, Bushing Removing
2092

Saws, Hack
See Frames, Hack Saw

SAWS, Portable Electric
4740 5588 5833 6178a 6766

SAWS and CUTTERS, Rotary (For Use With Portable Electric Drills)
(For cutting holes in instrument boards for mounting instruments)
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley" (Sole distributors)—*See adv. p.* 149
3256 3905 5708 5753 6459 6461

SCALES, Dial
6167

Score Filling Machines
See Machines, Score Filling (Electric)

SCRAPERS, Bearing
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley Atha" (Sole distributors)—*See adv. p.* 149
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill.—*See adv. p.* 148
9 1299 1324 1604 2017 2410 3336 3905 4549 4600 4726 5035 5602 5709 5753 5777 6208 6214 6461 6491 6497 6679

SCRAPERS, Carbon
2410 2841 4241 4549 4600 4726 5035 6208 6497 6503 6717a

SCRAPERS, Garage Floor
5449

Scrapers, Storage Battery Box
See Tools, Storage Battery Repair

SCREENS, Door and Window
307

Screens, Gasoline or Oil
See Strainers, Gasoline or Oil

SCREENS, Radiator Protection
Globe Machine & Stamping Co., 1212 W. 76th St., Cleveland, Ohio—*Illustrated & described, p.* 67
Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers)—*Illustration, description & prices, p.* 66
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.—*See adv. p.* 57

SCREENS, Radiator Protection, for Model A Fords
4557

SCREENS, Windshield Ventilating
84

SCREENS, Wire (Commercial Body)
6310

Screw Assortments, for Magnetos, Distributors, etc.
See Parts, Magneto, Coil and Distributor

Screw Cases
See Cases, Bolt and Screw

Screw Drivers
See Drivers, Screw

Screw Extractors
See Extractors, Bolt and Screw

SCREW-EYES, Brass and Iron
2756 5436 6586

Screw Pitch Gages
See Gages, Screw Pitch

Screw Plates
See Taps, Dies and Screw Plates

Screws, Body (Assortments)
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co"—*Illustrated, p.* 117

SCREWS, Brake
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*Illustrated & described, p.* 124
1626 1919 2619 4665

SCREWS, Cap and Set
(Advertisers in this publication only)
Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland, Ohio—*Illustration & warehouse stocks, p.* 122
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "Thrift-Pak"—*See adv. pp.* 246 & 247
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire"—*Branches, p.* 123
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*Illustrated & described, p.* 122

SCREWS, Coach and Lag
284 630 774 1158 1234 1854 2669 3420 4239 4254 4536 5815

SCREWS, Connecting Rod Clamp
16

SCREWS, Drive
4239 4625 6172

SCREWS, License Plate
(See also Fasteners, License Tag)
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.—*Illustrated, p.* 63

SCREWS, Machine
Aetna Metal Products Co., 1824 Washington Ave., St. Louis, Mo.—*Illustration, prices & sizes, p.* 124
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y.—*See adv. pp.* 246 & 247
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*Illustrated, p.* 122

SCREWS, Thumb
Guaranteed Parts Co., 252 W. 54th St., New York, N. Y. "Thrift-Pak"—*Illustrated, pp.* 246 & 247
295 643 1128 1158 1823 2472 3268 4688 4694 6323a 6483 6559 6730

SCREWS, Valve Adjusting
2799

Screws, Valve Tappet
See Screws, Valve Adjusting

SCREWS, Wood
Aetna Metal Products Co., 1824 Washington Ave., St. Louis, Mo.—*Illustration, prices & sizes, p.* 124
52 185 295 1095 1292 1805 1854 2702 4239 4254 4624 5056 5069 6221

Scrubbing Machines, Floor
See Machines, Floor (Electric)

Scuff Plates
See Plates, Kick or Scuff

SEALS, Lead, for Taxicab Meters
4745

SEALS, Paper
Unique Printed Products Co., 2224 N. 13th St., Terre Haute, Ind.—*See adv. p.* 173

SEALS, Rim
6615

Searchlights
See Lamps, Head (Acetylene); Lamps, Head (Electric); Lights, Spot; Lamps, Running Board (Searchlight)

Seat Adjusters
See Adjusters, Coach Seat

Seat Backs
See Backs, Metal Seat

Seat Covers
See Covers, Slip

Seat Cushions
See Cushions, Seat

Seat Pads
See Pads, Seat

Seat Protectors
See Covers, Slip; also Covers, Repairmen's

SEATS, Auxiliary
(Including folding chairs and stools)
199 352 2734 3724 3772 3872 5185 5570

SEATS, Babies'
1543

SEATS, Mechanics'
(Metal chairs, with tool box on casters for use by repairman under hoisted car)
352

SEATS, Reclining (Adjustable)
307

SEATS, Rumble
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass.—*See adv. p.* 48

SEATS, Rumble, for Fords
2628

SEATS, Valve
(For insertion in worn cylinders)
794 1019 2821 3467

Semaphores
See Signals, Direction indicating or Traffic

Separators, Gasoline or Oil
See Strainers, Gasoline or Oil

Separators, Oil
See Reclaimers or Rectifiers, Oil (Garage or Repair Shop); also Purifiers, Oil (For Attaching to Engine)

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

SEPARATORS, Storage Battery
161 1829 1904 1918 5609 5671 5758 6355

SETS, Rivet
2839 3336 4644 6323a 6470

Shackle Bolts
See Bolts, Spring Shackle

SHACKLES, Spring (Ball Bearing)
2010

SHACKLES, Spring (Rubber Cushioned)
American Chain Co., 929 Connecticut Ave., Bridgeport, Conn.—*See adv. p.* 40
Powell Muffler Co., 316 Catherine St., Utica, N. Y.—*Illustrated, p.* 112
142 4750

SHADES, Closed Car
(See also Awnings and Shades Combined)
644 725 1318 1319 1905 2614 3895 5116 5178 5411 5460 5762 6150 6659

Shades, Headlight
See Dimmers or Deflectors, Headlight; also Visors, Headlight

Shades, Sun
See Visors, Windshield

Shaft Couplings
See Couplings, Magneto, Generator and Water Pump

SHAFTING, Flexible
(For driving speedometers, odometers or taximeters; also for drilling, grinding, polishing machines, etc.)
Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p.* 90
83 537 633 645 718 1603 2074 2858 3769 5759 5782 5783 5784 5832

Shafts, Cam, for Racing Cars
See Camshafts, Special

Shafts, Clutch
See Shafts, Transmission, Clutch and Pump

Shafts, Crank, for Racing Cars
See Crankshafts, Special

Shafts, Flexible
See Shafting, Flexible; also Tubing, Flexible, Metallic

SHAFTS, Propeller
(Complete propeller shaft assemblies to blue print or specification; for universal joints only—see Joints, Universal)
116 1181 1605 3838 4288 4702 5576 5653

SHAFTS, Propeller and Rear Axle
(Shafts only; for complete axles—see Axles, Rear)
Foreman, W. D., 54th & State Sts., Chicago, Ill. "Triangle," "Arrow Head." (Also combination axle shaft & hub) — *Illustrated & described, p.* 79
Remington-Keystone Mfg. Co., 400 Chester Rd., Ridley Park, Pa. "Keystone" — *Illustrated & described, p.* 80
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars—*See adv. p.* 118
Spencer Mfg. Co., Main St., Spencer, Ohio—*Illustrated & described, p.* 80
U. S. Axle Co., Inc., Water St., Pottstown, Pa. — *Illustration & warehouses, p.* 79
714 1166 1605 2104 3474 3986a 4515 5096 5563 5651 5711 5731 6328

SHAFTS, Transmission, Clutch and Pump
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permite-Diamond"—*Illustrated, p.* 10
121 746 1605 2073 2439 3775 3954

SHAPERS, Draw-Cut
Morton Mfg. Co., Key Dept., Broadway & Hoyt St., Muskegon Heights, Mich.—*Illustrated, p.* 164

SHEARS and SNIPS, Metal
Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind.—*See adv. p.* 160
St. Pierre Chain Corp., Frank St., Worcester, Mass. — *Illustrated, p.* 38
249 623 682a 778 1082 1324 1921 4309 4644 5420 5516

SHEAVES and PULLEYS
(For horn and cut-out cables)
1287 4266a

SHEETS, Transparent
(For windows in curtains and storm fronts)
Eastman Kodak Co., Chemical Sales Dept., 343 State St., Rochester, N. Y. "Kodaloid"—*Illustrated & described, p.* 49
300 1060 1663 1816 1905 2059 2773 2860 3221 3422 6133

Shellac
See Cement, Gasket

SHELVING, Metal
304 622 1555 1668 2345 2705 3564 3571 3782b 3840 4253 4654 5728 6124 6632

SHIELDS, Air Draft Pedal, for Fords
(Rubber or metal deflectors to attach to front floor board to prevent heat from motor entering body)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie" — *See adv. p.* 86
291 1667 1905 2139 2773 4308 4788 6132

SHIELDS, Frost
(To prevent frosting of windshield; see also Heaters, Windshield)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie" — *See adv. p.* 86
1667 2158 4651 6646

Shields, Radiator
See Screens, Radiator Protection

Shields, Rain
See Visors, Top; also Visors, Windshield

SHIELDS, Rumble Seat
Tonneau Shield Co., 518 W. 57th St., New York, N. Y. — *Illustrated, p.* 70
163 6174

SHIELDS, Running Board
Corcoran Mfg. Co., Dept. 29, Section & Foraker Aves. (Norwood), Cincinnati, Ohio. "Peerless" (For Fords only; combination running board & dust shield)—*See adv. p.* 126
2115

SHIELDS, Sport Bumper
(To keep bumpers and front of car free from splash)
Hampden Automotive Products Co., 21-31 Winter St., Springfield, Mass. "FronToms"—*Described, p.* 48

SHIELDS, Tonneau
(Special adjustable shields for the protection of rear seat passengers in open cars)
Tonneau Shield Co., 518 W. 57th St., New York, N. Y. "J.H." "American Auster"—*Illustrated, p.* 70
2404 2407 2600a 2664 3897 6131 6174

SHIELDS, Wind
2664 5668

SHIELDS, Wing (For Open and Closed Cars)
Dole Valve Co., 1913-33 Carroll Ave., Chicago, Ill.—*Illustration, description & prices, p.* 63
Reliance Specialty Co., Holyoke Water Co. Bldg., Rear Cabot Ct., Holyoke, Mass. "Win-Brax"—*Illustration, description & prices, p.* 53
Tonneau Shield Co., 518 W. 57th St., New York, N. Y. "J. H."—*Illustrated, p.* 70
Trico Products Corp., 807 Washington St., Buffalo, N. Y.—*See adv. p.* 74
163 617 1536 1557 1618 2404 2600a 2664 2773 2809 3885 3897 4503 4744 5406 5685 6131 6174 6190

SHIFTERS, Gear (Automatic)
6362

Shimmy Eliminators
See Checks, Steering Gear

SHIMS, Axle Caster (Aluminum)
2835

SHIMS, Connecting Rod
4243

SHIMS, Connecting Rod, for Fords
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio — *See adv. p.* 118
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill. — *See adv. p.* 99
27 3537 5563 6480

Shims, Crankshaft, for Fords
See Bearings, Crankshaft Thrust, for Fords

Shims, Demountable Rim
See Plates, Demountable Rim Wedge

SHIMS, Drive Shaft Universal Ball Joint, for Fords
Loock & Co., R. J., 343-45 Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

SHIMS, Laminated
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich. "Laminum," "Fit-All" (Brass; distributors for Laminated Shim Co.)—*Illustration & warehouses, p. 207*
Laminated Shim Co., 14th St., Long Island City, N. Y. "Laminum," "Fit-All." (Brass; distributors—Federal-Mogul Corp.) —*Illustrated, p. 205*
2039 3418 4243

SHIMS, Radius and Steering Rod Ball Cap, for Fords
3537

SHIMS, Rear Axle Taper, for Fords
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p. 59*
2795 3537 5697

SHIMS and LINERS, Brass and Copper
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.—*See adv. p. 96*
Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y.—*See adv. p. 150*
27 790 2079 2795 3018
3212 3275 3709 4005 4243
6323a

SHIMS and LINERS, Leather
1124 2441 3455

SHIMS and LINERS, Steel
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill.—*See adv. p. 99*
6323 6480

SHOCK ABSORBERS, Friction, Hydraulic and Pneumatic
Houde Engineering Corp., Div. Houdaille-Hershey Corp., 537-43 E. Delavan Ave., Buffalo, N. Y. "Houdaille"—*Illustrated, p. 68*
31 142 203 529 765
1179 1180 1548 2053 2085
2305 2668 2671 2807 3010
3410 3423 3805 3958 5653
5761 6330 6596

SHOCK ABSORBERS, Rubber, for Tilting Seat Legs
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.—*See adv. p. 57*

SHOCK ABSORBERS, Spring
2671

SHOCK ABSORBERS, Spring, for Fords
224 2671

Shock Absorbers, Spring Shackle
See Shackles, Spring

Shock Absorbing Springs, for Front Seats
See Legs, Spring Cushion, for Folding Front Seats in Coaches

SHOES, Brake, for Fords
(Including both lined or faced and unlined shoes)
115 1669 2338 2411 3958
5049 5082 5159 5212 5697
6689

Shoes, Inner Tire
See Patches, Blowout (Wing)

Show Cases
See Counters, Store

Show Windows
See Fronts, Store

SHUTTERS, Automatic Radiator
(Metal shutter automatically opened or closed by a thermostat—see also Regulators, Water Circulating; for hand operated shutters—see Shutters, Metal and Fibre Radiator)
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill. "Winterfront"—*Illustrated, p. 71*

SHUTTERS, Metal and Fibre Radiator
(Metal and fibre shutters for protecting the radiator in cold weather; for automatic shutters—see Shutters, Automatic Radiator)
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Moto-Gard" — *Illustrated & described, p. 155*
Globe Machine & Stamping Co., 1212 W. 76th St., Cleveland, Ohio. —*Illustrated, p. 67*
97 720 1319 2392 2402
3027 3065 3857 4757

SIGHT-FEEDS, Independent
(For installing on dash or instrument boards to show when oil is feeding or flowing properly—see also Gages)
3016

Signal Indicators, Dash
See Lamps, Tell-Tale

Signal Rings
See Controls, Horn

SIGNALS, Direction Indicating or Traffic
(Devices for attaching to a car to enable operator to indicate when a turn or stop is about to be made)
Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y.—*Distributors, p. 91*
K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio—*Illustrated, p. 64*
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p. 71*
131 690 1150 3200 3278
3992 4227 4538 4712 4735
5176 5212 5556 5761 6117
6810

Signals, Road
See Reflectors, Safety (For Road Use)

SIGNS, Electric
730 2088 3311 3344 3730
5048 5522

SIGNS, Illuminated Destination, for Buses
1866

SILENCERS, Carburetor Intake
6

SILENCERS, Hood Fastener
31 280 1274

SILENCERS, Overhead Valve
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*See adv. p. 124*
1626 1651 2799 3805 3950
4665

Silencers, Radius Rod
See Anti-Rattlers, Radius Rod

Silencers, Steering Rod
See Anti-Rattlers, Steering Rod

SILK, Curtain
Wiese & Co., Wm., 234 W. 56th St., New York, N. Y.—*See adv. p. 44*
725 3411 5477 6710

Silk Thread
See Thread, Silk

Siren Horns
See Horns, Siren

Six Wheel Attachments, for Trucks
See Attachments, Six Wheel, for Trucks

SKYLIGHTS
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p. 101*

Slat Irons
See Irons, Slat

Sleet Eliminators
See Shields, Frost; also Heaters, Windshield

SLEEVES, Cylinder
(Steel sleeve inserts for use in connection with regrinding or reboring of heads in cylinders)
5779a

SLICKERS, Rumble Seat
1666

Smoking Cases
See Cases, Toilet, Vanity, Card and Smoking

Snow Plows
See Plows, Snow

Snubbers
See Shock Absorbers, Spring; also Straps, Rebound

SOAPS, Automobile
(Advertisers in this publication only)
Puritan Soap Co., 500 Exchange St., Rochester, N. Y. "Puritan"—*See adv. p. 74*

Soapstone, Tire
See Talc, Tire

SOCKETS, Bow
(For slat irons—see Irons, Slat)
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Pioneer," "Cortland"—*See adv. p. 155*
720 2407

SOCKETS, Electric Lamp
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p. 71*
1214 1553 1629 1804 2723
3856 4712 4735 5179 5604

Sockets, Wrench
See Wrenches, Socket

SOLDER
(See also Solder, Self-Fluxing)
1530 1810 2044 2632 2732
3210 3265 3762 4238 4337
6315 6637

SOLDER, Aluminum
120 1895a 2044 4541 4617
5608 5811 6637

SOLDER, Self-Fluxing
(See also Solder)
2313 3265 4238 4689

Soldering Acid, Fluid, Flux, Paste and Salts
See Flux, Soldering

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Soldering Furnaces
See Furnaces, Soldering

Spark Coil Covers
See Covers, Coil

Spark Coils
See Coils, Ignition

Spark Intensifiers
See Intensifiers, Spark

Spark Plug Equipment
See Brushes, Spark Plug; Cables (Sets); Cases, Spark Plug; Cleaners, Spark Plug; Covers, Spark Plug; Terminals, Wire; Testers, Spark Plug

Sparking Points
See Points, Contact

Speedometer Gears
See Gears and Pinions, Speedometer

Speedometer Joints
See Joints, Speedometer Swivel

Speedometer Parts
See Parts, Speedometer

Speedometer Shaft Casing
See Shafting, Flexible

SPEEDOMETERS
6 1311 4340 5761 6570

Spindle Bolt Nuts, for Fords
See Nuts, Spindle Bolt, for Fords

SPINDLES, Emergency Rear Axle, for Fords
100 4241 6825

Splitters, Nut
Porter, Inc., H. K., 33 Ashland St., Everett, Mass.—*Illustrated, p.* 161

Spoke Straighteners
See Tools, Spoke Straightening (For Model A Fords)

Spoke Tighteners
See Tighteners, Spoke

Spoke Tightening Compounds
See Compounds, Wood Wheel Tightening

SPOKES, Wire
4254

SPONGES and CHAMOIS
104 188 666 667 1334
2091 2450 3064 4209 4316
4738 5115 5468 6463

Spoons, Body and Fender
See Tools, Body and Fender Repair

Spotlights
See Lamps, Spot

SPOUTS, for Oil Dispensers
3989

SPOUTS, Radiator and Gasoline Tank
1139 5710

SPRAYERS, Paint, Varnish and Lacquer
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*See adv. p.* 40
Brunner Mfg. Co., 1800 Broad St., Utica, N. Y. — *Illustrated & described, p.* 143
Electric Sprayit Co., 1704 E. Colfax Ave., South Bend, Ind.—*Illustrated & described, p.* 144
Hobart Brothers, Box C50, Canal Locks Square, Troy, Ohio. "HB"—*Illustrated, p.* 140
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y. — *Illustration, specifications & prices, second page from Inside Back Cover*
United States Air Compressor Co., 5316 Harvard Ave., Cleveland, Ohio. "Usaco," "U. S."—*Illustration, description & prices, p.* 145
35 142 310 570 646
719 759 1086 1141 1331
1587 1830 1837 1867 2127
2394 2766 3014 3016 3151
3513 3774 3823 3856 3891
3950 4301 4319 4353 4501
4603 4713 4729 4801 5524
5568 5656 5781 5811 6324
6745 6767

Spreaders, Spring
See Tools, Spring Spreading

Spreaders, Tire
See Tools, Tire Spreading

Spring Cushion Legs, for Coaches
See Legs, Cushion, for Folding Front Seat in Coaches

Spring Parts, Repair Equipment, etc.
See Bolts; Bumpers; Clips; Covers; Cushions, Discs; Jacks, Spring; Links; Lubricators; Machines, Spring (Elliptic); Oilers; Pins, Cotter; Pullers; Shackles; Tools, Spring

SPRINGS, Auxiliary (Truck)
3

Springs, Brake
See Springs, Small (Flat or Coil)

SPRINGS, Carburetor Choker, for Fords
35 3855

Springs, Coil
See Springs, Small (Flat or Coil)

Springs, Engine Valve
See Springs, Small (Flat or Coil)

SPRINGS, Leaf
Burton Auto Spring Corp., 2433-41 W. 48th St., Chicago, Ill.—*See adv. p.* 131
Jenkins Vulcan Spring Co., Eighth & N. G Sts., Richmond, Ind. "Vulcan"—*Illustrated, p.* 128
Rowland, Inc., William & Harvey, Frankford, Philadelphia, Pa. — *Illustrated, p.* 129
St. Louis Spring Co., 3135-39 Washington Blvd., St. Louis, Mo. "Moog"—*See adv. p.* 129
Service Spring Co., 735 St. Paul St., Indianapolis, Ind.—*See adv. p.* 130
Trainor National Spring Co., Newcastle, Ind. — *Illustrated & described, p.* 128
3 85 618 632 810
1016 1081 1089 1152 1582
1819 2653 2668 2802 3116
3410 3497 3543 3786 4720
5196 5414 5509 6119 6183
6188 6222 6347

Springs, Leg, for Coach Seats
See Legs, Spring Cushion, for Folding Front Seats in Coaches

SPRINGS, Seat or Upholstery
Chicago Coil Spring Co., 3101 Carroll Ave., Chicago, Ill.—*Illustrated, p.* 130
190 1113 1269 1514 2085
2421 2634 3996 4242 5111
5202

SPRINGS, Small (Flat or Coil)
Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio—*Illustration & warehouses, p.* 131
Chicago Coil Spring Co., 3101 Carroll Ave., Chicago, Ill.—*Illustrated, p.* 130
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*Illustrated, p.* 119
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. — *Illustrated & described, p.* 124
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustrated, p.* 59
Peck Spring Co., 68 Broad St., Plainville, Conn.—*Illustrated, p.* 72
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. (Brake)—*See adv. p.* 279
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
16 190 339 632 1016
1101 1113 1287 1514 1626
1906 2053 2619 2834 2838
3146 3327a 3537 4010 4556
4643 4649 4665 4680 5049
5563 5687 5718 5809 6134
6214 6347 6586 6818

Springs, Starting Motor Drive
See Parts, Starting Motor Drive

Springs, Upholstery
See Springs, Seat or Upholstery

Springs, Valve
See Springs, Small (Flat or Coil)

SPROCKETS
3510 3982 6699

SQUARES, Machinists'
Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I. — *See adv. p.* 162
752 2410 3559 5719 6311

Stabilizers, Engine, for Fords
See Supports, Engine, for Fords

Stabilizers, Steering
See Checks, Steering Gear

STAMPS, Steel
(For numbering or lettering parts)
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146
682a 2643 2778 3227 3542
3822 3869 3988 4026 4708
5816 6311 6586a

STAMPS, Time
325 3224 3869 3988 5816

STANDS, Axle Repair (Rear)
100 685 3256 5635 6745

Stands, Burning-In
See Machines, Burning-In

STANDS, Display
(Painted, enameled or lithographed advertising)
2095 2432 4735

STANDS, Display, for Oil Dispensers
128 2635

STANDS, Electric Test
(For testing starting and lighting equipment)
Hobart Brothers, Box C50, Canal Locks Square, Troy, Ohio "H-B"—*Illustrated, p.* 140
100 559 812 1226 1625
2766 3256 3282a 5511 5635
5676 6616 6745

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

STANDS, Engine Repair
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*See adv. p.* 40
100 142 685 1082 3256 3774 4241

STANDS, for Portable Electric Drills and Grinders
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio —*See adv. p.* 17
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley." (Sole distributors)— —*See adv. p.* 149
336 655 1123 1161 2764 2848 3409 3564 3571 3730 5708 6118 6312 6332 6459 6461

STANDS, Portable Tool and Parts
114 213 304 352 685 2848 3409 3564 3571 3730 3782b 4284 4741 5635 5690 5753 5833 6660

Stands, Repair
See Stands, Axle Repair (Rear); also Stands, Engine Repair; also Stands, Portable Tool and Parts

Stands, Running-In
See Machines, Burning-In

STANDS, Tire Building
532 3894 4233a 4249 4250

STANDS, Transmission and Differential Repair
3256

STAPLES, Insulated
(Fibre insulated staples for car wiring)
661 2782 5532 6816

Starter Equipment
See Brushes; Buttons; Cable; Drives; Extensions, Starter Button; Keys; Pedals

STARTERS, Electric Engine
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. (Combination primer & starter)—*See adv. p.* 142
35 98 270 690 1266 1857 3462 4340 4681

STARTERS, Hand, for Fords
1064a 3855

Starting Crank Holders
See Holders, Starting Crank

Starting Cranks
See Cranks, Starting

Starting Motor Drive Parts
See Drives, Starter; also Parts, Starting Motor Drive

Starting Motor Housings
See Housings, Starting Motor

STATIONS, Air or Water
(For installing at curb for free air and water service)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "De Luxe" —*See adv. p.* 40
Brunner Mfg. Co., 1800 Broad St., Utica, N. Y. (Distributors)—*Illustrated & described, p.* 143
Champion Pneumatic Machinery Co., 8170 S. Chicago Ave., Chicago, Ill. —*See adv. p.* 142
Curtis Pneumatic Machinery Co., 1927 Kienlen Ave., St., Louis, Mo. —*Illustrated & described, p.* 141
Hobart Brothers, Box C50, Canal Locks Square, Troy, Ohio. "HB" —*See adv. p.* 140
142 176 700 759 1086 1345 1568 2127 2384 2394 2646 2681 2766 3245 3406 3513 3774 3794 4741 4784 5408 5505 5510 6324 6604 6798

Steel Wool
See Wool, Steel

Steering Apparatus
See Anti-Rattlers; Bolts; Boots, Checks; Gears; Links; Locks; Wheels

Steering Knuckle Bushing Mills, for Fords
See Mills, Steering Knuckle Bushing, for Fords

STENCILS
2643 3227 3542 3822 3869 3988 5816 6586a

Step Lights
See Lamps, Cowl, Fender, Tail, Parking, Running Board and Clearance

Step Plates
See Plates, Step

STEPS, Rumble Seat
1616 1829 2412 4215 6151 6218 6627

Stethoscopes, Engine Testing
See Instruments, Engine Testing

Stills, Oil
See Purifiers, Oil (for Attaching to Engines); also Reclaimers or Rectifiers, Oil (Garage or Repair Shop)

STILLS, Water
(For distilling water for use in storage batteries)
Atlas Copper & Brass Mfg. Co., 2724-42 High St., Chicago, Ill. "Polarstill" — *Illustrated & described, p.* 157
286 550 5771 5821

STOCKS, Die
250 1253a 2694 4758 6146a

STONES, Contact Point Cleaning
4735

STOOLS, Steel Shop
213 1668 3294 3782b 4284 5690 6495

Stop Light Flashers
See Flashers, Stop Light

Stop Lights
See Signals, Direction Indicating or Traffic

Storage Battery Flushers
See Flushers, Storage Battery

STORAGE SYSTEMS, Shop
(Consisting of platform-trucks, lifting devices, sectional bins, folding stakes, racks, etc.)
2009

Storage Tanks and Systems
See Tanks and Systems, Gasoline and Oil Storage

Store Counters
See Counters, Store

Store Fronts
See Fronts, Store

STRAIGHTENERS, Frame
Utility-Strate Mfg. Co., 105 Glasgow Ave., Fort Wayne, Ind. "Utili-Strate" — *Illustration, description & prices, p.* 157
100 6375

Straightening Equipment
See Bars, Axle Straightening; Bars, Straightening; Machines, Wheel Straightening (Disc); Presses, Straightening; Straighteners, Frame

Strainers, Carburetor Air Intake
See Cleaners, Air

STRAINERS, Gasoline or Oil
(For use between tank and carburetor and in oil pumps to remove dirt and water; for strainer funnels—see Funnels, Metal)
Hygrade Products Co., 17 W. 60th St., New York, N. Y.—*See adv. p.* 90
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
6 86 224 611 613 1341 1622 1894 2018 2619 2858 3016 3563 4503 4791 6145 6154 6823

STRAINERS, Radiator and Tank Filler
(Strainer baskets of woven wire for use in fuel and oil tanks and radiators)
3016

Strainers, Tank
See Strainers, Radiator and Tank Filler

Strap Loops
See Loops, Brass Snap and Strap

STRAPS, Gripping
(For removing or tightening hub and radiator caps, headlight rims, etc.)
5134 5135

STRAPS, Leather
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co"—*See adv. p.* 117
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind.—*See adv. p.* 85
Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco" — *Branch offices, p.* 107
23 360 692 1048 1111 1115 1124 1575 2441 2746 2773 3027 3455 5075 5113 5191 5214 5672 6734

STRAPS, Rebound
(See also Shock Absorbers, Friction, Hydraulic and Pneumatic)
1124 2441 3891a 5637

Straps, Starting Crank
See Holders, Starting Crank

Straps, Tire and Top
See Straps, Leather; also Straps, Web

STRAPS, Web
Russell Mfg. Co., Dept. Q-14, Middletown, Conn. "Rusco" — *See adv. p.* 107
146 644 692 781 1048 1192 1318 2360 2378 3455 5214 5598 5637 5794

Street Sweepers
See Automobiles (Street Sweepers, Flushers and Sprinklers)

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

STRETCHERS, Brake Lining
2116 4791 5214 5721a

STRIPS, Sill
(For setting door and window glass)
251

STRIPS, Windshield Weather
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134
1274 1580 1829 1893 2412
2625 3324 3903 4607

Striping Pencils
See Tools, Striping

Strut Rods, for Fords
See Rods, Rear Axle Truss, for Fords

STUDS
Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland, Ohio—*Warehouse stocks, p.* 122
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*See adv. p.* 122
543 774 1128 1158 1173
2056 2680 3420 3756 4211
4239 4536 4555 6221 6323a
6483 6568 6644

Supplies, Dealers and Jobbers
See Jobbers and Supply Dealers

Supports, Car
See Jacks, Tire Saving

SUPPORTS, Engine, for Fords
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Pioneer"—*Illustrated & described, p.* 155
720 2795 6825

Supports, Top
See Fasteners, Top

Surface Gages
See Gages, Surface

Surface Plates
See Plates, Surface

Surplus Parts and Accessories, Buyers of
See Parts and Accessories, Buyers of Surplus

Sweepers, Street
See Automobiles (Street Sweepers, Flushers and Sprinklers)

Switch Keys
See Keys, Switch and Starting

Switch Locks
See Locks, Ignition

Switchboards, Charging
See Panels and Switchboards, Charging

SWITCHES, Floor or Foot
(For signals, horns, headlight dimming, etc.)
542 1201

SWITCHES, Headlight Dimming (Dash)
(For other dimming devices—see Dimmers or Deflectors, Headlight; also Switches, Light; also Switches, Headlight Dimming, Steering Wheel)
1257 2723 4304 5179

SWITCHES, Headlight Dimming, for Fords
(Extensions on steering wheels)
5105

SWITCHES, Headlight Dimming, Steering Wheel
1553 3539 5105 6218

SWITCHES, Ignition
296 690 1201 1257 1629
3856 3935 5179 5604 5655
5687

SWITCHES, Light
(For turning on and off electric lights on car; see also Switches, Headlight Dimming, Steering Wheel)
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p.* 251
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p.* 71
582 690 1201 1214 1257
1309 1553 1629 2347 2723
3278 3809 3856 3935 4712
4735 5179 5604 5687

SWITCHES, Rear Signal
Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill.—*See adv. p.* 71
Signal Mfg. Co., 587 Washington St., Lynn, Mass. "Eveready"—*See adv. p.* 58
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford and Chevrolet cars)—*See adv. p.* 118
1201 1214 1553 1561 1629
2053 3278 4712 5556 5563
5604 6810

SWITCHES, Starter
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y.—*See adv. p.* 243 *& Opposite Inside Back Cover*
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p.* 251
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "GP"—*See adv. pp.* 246 & 247
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog." (For Ford & Chevrolet cars)—*See adv. p.* 118
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*See adv. p.* 249
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*See adv. p.* 30
322 337 339 690 746
1257 1341 1857 1906 2472
2858 3104 3202 3462 4317
4340 4601 5687 6634

SWITCHES, Starter, for Fords
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y.—*Illustrated, p.* 119
1906 5210

Switches, Stop Light
See Switches, Rear Signal

SYNCHRONIZERS, Ignition Contact Point
C & H Mfg. Co., New Brunswick, N. J.—*Illustration, description & prices, p.* 54
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*Illustrated & described, p.* 30
533 1001a 3702a 4007 4601

SYSTEMS, Accounting
Comfort Printing Specialty Co., 107 N. Eighth St., St. Louis, Mo.—*See adv. p.* 134

SYSTEMS, Battery Ignition
Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y.—*Distributors, p.* 91
296 690 1063 1857 3462
3768

Systems, Brake
See Brakes, Air

Systems, Chassis Lubricating
See Fittings, Lubricating

SYSTEMS, Crank Case Drainage Disposal
(For storing and disposing of crank case oil in pits)
700

SYSTEMS, Fuel Feed (Pump Type)
6 345 3709 5761 6464

SYSTEMS, Fuel Feed (Vacuum Tank Type)
5761

Systems, Ignition
See Coils, Ignition; also Magnetos, Ignition; also Systems, Battery Ignition

SYSTEMS, Lighting (Electric)
(See also Generators, Electric Lighting and Battery Charging (Auto)
690 1857 3462

Systems, Lubricator, for Fords
See Lubricators and Oil Pumps, for Fords

Systems, Monorail
See Systems, Overhead Carrying

Systems, Oil Purifying
See Reclaimers or Rectifiers, Oil (Garage or Repair Shop)

SYSTEMS, Overhead Carrying
110 1134 1254 2649 2840
3546 4306 5118 5193 5535
6799

SYSTEMS, Tire Repair
2071 2416 3239

Systems, Trolley
See Systems, Overhead Carrying

TACKS, Upholstery
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Hit 'em"—*Illustration & specifications, p.* 117
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Lethermet"—*See adv. p.* 155
292 305a 360 528a 720
725 2358 2432 2750 2773
2782 3821 3916 4254 4271
5552 6180 6816

TAGS, Paper Shipping
(Advertisers in this publication only)
Comfort Printing Specialty Co., 107 N. Eighth St., St. Louis, Mo.—*See adv. p.* 134

TAGS, for Storage, Repair Work, Battery Charging, etc.
(Advertisers in this publication only)
Comfort Printing Specialty Co., 107 N. Eighth St., St. Louis, Mo.—*Illustration, description & prices, p.* 134
St. Louis Tag Co., 217 Locust St., St. Louis, Mo.—*Illustrated, p.* 88
Unique Printed Products Co., 2224 N. 13th St., Terre Haute, Ind.—*See adv. p.* 173

TAKE-OFFS, Power
(Attachments to permit the use of the car motor for general power purposes)
748 1305 4020 4020a 4602
5418 6779

TAKE-OFFS, Power, for Fords
6203 6575

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

TALC, Tire
(Including soapstone and mica tire powders)
1211 1667 1829 1833 2412
2416 3046 3247 3523 3903
3922 5046 5413 6340 6344
6702a 6729

Tank Body Equipment
See Buckets, Tank Body; also Vents, Tank Body; also Faucets, Tank Body

Tank Equipment
See Caps; Floats; Gages; Keys; Locks; Spouts; Strainers; Trucks

Tank Trucks
See Trucks, Acetylene and Oxygen Tank

TANKS, Chemical Fire
(For installation on motor propelled fire apparatus)
165 703 4718 5407

TANKS, Compressed Air (Portable)
69 1345

TANKS or CANS, Emergency or Reserve
(For carrying a reserve supply of gasoline or oil; for reserve cocks—see Valves, Two-Way Tank)
1632 5559 5831 6790

TANKS or CANS, Emergency or Reserve, for Fords
2795

Tanks, Fire
See Tanks, Chemical Fire

TANKS, Gasoline (Portable)
(Tanks and pumps on wheels, for dispensing gasoline in gallons)
176 700 1231 2370 5510
6604 6656

TANKS, Inner Tube Testing
704a 1632 2826 3894 3930
4757 4784 5178 6649

Tanks, Metal Parts Washing
See Machines, Washing (Metal Parts)

TANKS, Oil (Portable)
(Tanks and pumps on wheels, for dispensing oil in quarts; for oil dispensing trays, bottles and spouts—see Dispensers, Oil)
176 700 2370 3513 3846
5510 6604

Tanks, Reserve
See Tanks or Cans, Emergency or Reserve

Tanks, Storage
See Tanks and Systems, Gasoline and Oil Storage

Tanks, Vacuum and Compression Gasoline
See Systems, Fuel Feed (Vacuum Tank Type)

TANKS and SYSTEMS, Gasoline and Oil Storage
(For storing and handling oil in filling stations; for Portable Tanks—see Tanks, Gasoline (Portable); also Tanks, Oil (Portable)
69 176 295 347 600
640 650 677 700 704a
753 817 1112 1129 1523
1533 1820 1899 2027 2051a
2370 2445 2697 3238 3294
3846 3917 4016 4246 4260
4691 4784 5000 5112a 5122
5444 5510 5526 5584 6165
6604 6656

Tap Sharpening Tools
See Tools, Tap Sharpening

TAPE, Insulating and Tire
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. "Adheso"—*See adv. p.* 85
Holfast Rubber Co., Lakewood Ave., Atlanta, Ga.—*See adv. p.* 85
St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. "Red X"—*See adv. p.* 171
74 204 205 693 1007
1119 1589 1653 1667 1829
2071 2355 2746 2773 2781
3127 3247 3422 3469 3903
3925 3983 4525 4533 4613a
4733 5046 5413 5807 6344
6456 6664

TAPE, Masking
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Rie-Nie"—*See adv. p.* 86
Eastman Kodak Co., Chemical Sales Dept., 343 State St., Rochester, N. Y.—*Illustrated & described, p.* 49
561 1587 1667 1816 1829
3883 3921 3925 5488 5514

Tape, Tire
See Tape, Insulating and Tire

Taper Pins
See Pins, Taper

TAPS, DIES and SCREW PLATES
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.—*Illustrated, p.* 158
124 250 364 569 756
819 1033 1082 1253a 2317
2456 3256 3271 3986 4578
5083 5212 5214a 5700 6146a
6312 6745 6755 6380

Tappet Screws
See Screws, Valve Adjusting

Tappet Silencers, Overhead Valve
See Silencers, Overhead Valve

Tappet Wrenches
See Wrenches, Tappet

Tappets, Valve
See Rods, Adjustable Valve Lift

Tar Distributors
See Automobiles (Oil, Tar and Asphalt Distributors)

Tar Removing Compounds
See Compounds, Tar Removing

Taxicab Meter Seals
See Seals, Lead, for Taxicab Meters

Taxicabs
See Automobiles (Taxicabs)

TAXIMETERS
4528 4723

Tees, Pipe
See Fittings, Tube (Copper or Brass)

TELEPHONES, Closed Car
1257 1595

Tell-Tale Lights
See Lamps, Tell-Tale

TENTS, Touring
621 740 1192 1225 1318
2157 2728 3277 3862 4698
4798 5448 5773 6200 6639

Terminal Connectors
See Connectors, Terminal (Storage Battery Charging)

Terminal Forming Tools
See Tools, Wire Terminal Forming

Terminal Paints
See Paints, Storage Battery Terminal

Terminal Tongs
See Tools, Storage Battery Repair

TERMINALS, Storage Battery
Crescent Automotive Cable Co., (Crescent Braid, Inc.), 116 Elm St., Providence, R. I.—*Illustration & warehouse stocks, p.* 90
560 592 1321 1927 2735
2861 3244 3331 3437 4215
4523 4556 4610 4672 4785
5034a 5425 5687 5739 6107
6139 6355 6561 6678 6681
6772

TERMINALS, Wire
(See also Connectors, Dry Battery; also Tools, Wire Terminal Forming)
Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn.—*See adv. p.* 251
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.—*See adv. p.* 96
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.—*See adv. p.* 63
K-E-M Mfg. Co., 247 W. 55th St., New York, N. Y.—*Illustrated, p.* 249
Rajah Co., Locust Ave. & Nelson St., Bloomfield, N. J.—*Illustration, description, specifications & prices, p.* 92
Wittek Mfg. Co., 4305-9 W. 24th Place, Chicago, Ill. "Tab"—*Illustrated & described, p.* 88
541 746 1063 1257 1851
2079 3002 3202 3349a 3771
4556 4735 5036 5104 5494a
5539 6681 6763

Test Benches or Stands, Electric
See Stands, Electric Test

Test Clips
See Clips, Electrical Test

Testers, Acid
See Hydrometers

Testers, Battery
See Hydrometers; also Instruments, Storage Battery Testing

Testers, Brake
See Machines, Brake Testing; also Instruments, Brake Testing; also Tools, Brake Testing

Testers, Electrical
See Instruments, Electrical Circuit Testing

Testers, Engine
See Instruments, Engine Testing; also Dynamometers

Testers, Gasoline
See Hydrometers

TESTERS, Headlight (Chart Type)
2436

TESTERS, Headlight (Optical)
4353 6611

TESTERS, Headlight (Photometric)
1526

Testers, Insulation
See Instruments, Insulation Testing

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

TESTERS, Spark Plug
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y.—*See adv. p. 243 & Opposite Inside Back Cover*
337 1226 3849 4775 5179 5511 6686

Testing Tanks
See Tanks, Inner Tube Testing

Thermometer Lights, Radiator
See Lights, Motor Meter

Thermometer Locks, Radiator
See Lock, Radiator Cap and Thermometer

Thermometers, Radiator
See Meters, Water Temperature Indicating

THERMOMETERS, Vulcanizer
1091a 3992 6109

Thermostats, Water Circulating
See Regulators, Water Circulating

Thread Cutting Dies
See Taps, Dies and Screw Plates

Thread Restoring Tools
See Tools, Thread Restoring

THREAD, Silk
3868a

THREAD, Top and Upholstery
3868a

TICKETS, Bus Passenger
2397 4799 5042

Tie Rod Bolts
See Bolts, Steering Knuckle

TIGHTENERS, Automatic Fan Belt, for Fords
134

Tighteners, for Chain Drives
See Chain Adjustments, Automatic or Manual

TIGHTENERS, Spoke
(For chemical tighteners—see Compounds, Wood Wheel Tightening)
Hubco Mfg. Co., 404 W. Conway St., Baltimore, Md.—*Illustrated, p. 138*
2469a 2795 2822 6213

TIGHTENERS, Tire Chain
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*See adv. p. 40*
Cleveland Chain & Mfg. Co., Penna. R. R. & Henry Rd., Cleveland, Ohio—*See adv. p. 38*
Continental Rubber Works, 1902 Liberty St., Erie, Pa.—*See adv. p. 134*
Gates Rubber Co., 909 S. Broadway, Denver, Col.—*See adv. p. 86*
Lion Chain Co., 3124 W. 51st St., Chicago, Ill. "Cub"—*See adv. p. 42*
St. Pierre Chain Corp., Frank St., Worcester, Mass.—*Illustrated, p. 38*
Signal Mfg. Co., 587 Washington St., Lynn, Mass. "Lion"—*Illustrated & described, p. 58*
142 508 1174 1274 1347 1906 2053 2074 2324 2860 3040 3468 3512 5051 5420 5556 6330 6586

Tightening Compounds, Wood Wheel
See Compounds, Wood Wheel Tightening

Time Checks
See Checks, Brass, Time, Tool and Pay

Time Recording Clocks
See Clocks, Time Recording and Watchman's

Time Stamps
See Stamps, Time

Timer Brushes, for Fords
See Brushes, Timer, for Fords

Timer Points
See Points, Contact

Timer Rings, Fibre
See Fibre, Hard

Timer Rotors, for Fords
See Brushes, Timer, for Fords

TIMERS, Ignition or Spark (For Model T Fords)
Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. "Bull Dog," "Badger"—*See adv. p. 118*
208 620 690 2795 2861 3104 3207 3545 4515 6170 6218

Timing Chains
See Chains, Timing

Timing Gears
See Gears, Timing (Metallic and Non-Metallic)

Tire Bolts, Carriers, Covers, Cover Emblems, Gages, Jacks, Locks, Racks, Straps, Wells, etc.
See specific heads, such as Bolts, Stove and Tire

Tire Chains and Equipment
See Chains; Fasteners; Links; Pliers; Tighteners; Tools, Tire Chain Repair

Tire Curing Bags
See Bags, Steam Tire Curing

Tire Pump Connections
See Connections, Tire Pump

Tire Pumps
See Inflators, Tire (Automatic); also Pumps, Tire (Hand)

Tire Repair Materials
See Cement; Compounds; Flaps; Kits; Patches; Plugs; Talc; Tape

Tire Repair Tools and Machines
See following heads:
Knives, Tire Repair
Machines, Tire Buffing
Machines, Tire Cutting Off
Machines, Tire Inspecting
Machines, Tire Removing and Replacing
Molds and Cores
Presses, Solid Tire Truck Applying
Stands, Tire Building
Systems, Tire Repair
Tools, Tire
Tools, Tire Deflating
Tools, Tire Spreading
Tools, Tire Tread Rolling and Peeling
Tools, Tire Vulcanizing

Tire Valves, Parts and Tools
See following heads:
Caps, Tire Valve Dust
Tools, Tire Valve Fishing
Tools, Tire Valve Rethreading
Valves, Tire

TIRES, Pneumatic
(See also Tubes, Inner)
Continental Tire Corp., Dept. C, 1508-15 Michigan Ave., Chicago, Ill. (Distributors)—*See adv. p. 78*
Gates Rubber Co., 999 S. Broadway, Denver, Colo.—*See adv. p. 86*
United States Rubber Co., Detroit, Mich.—*See adv. p. 111*
74 1003 1039 1205 1240 1276 1286 1295 1342 1534 1591 1649 1829 2019 2062 2071 2076 2324 2355 2365 2412 2416 2740 2798 3031 3247 3260 3469 3706 3710 3778 3813 3903 3934 3949 4028 4342 4354 4360 4560 4659 4686 5426 5495 6205 6344

TIRES, Solid
United States Rubber Co., Detroit, Mich.—*See adv. p. 111*
1649 1829 2071 2076 2355 2412 2416 2798 3247 3469 4560 6344

Toilet Cases
See Cases, Toilet, Vanity, Card and Smoking

TOILETS, Bus
1825

TONGS, Radiator Fin Straightening
1895a

Tongs, Terminal
See Tools, Storage Battery Repair

Tool Bags
See Bags or Rolls, Tool

Tool Boxes
See Boxes, Tool (Metal); also Boxes, Tool (Wood)

Tool Grinders, Plain
See Machines, Grinding (Plain Tool)

Tool Holders
See Holders, Lathe and Planer Tool

Tool Kits
See Kits, Tool

Tool Racks
See Racks, Metal Tool, Stock and Tire

Tool Rolls
See Bags or Rolls, Tool

TOOLS, Babbitt Peining
6745

Tools, Bearing Pulling
See Pullers, Bearing

TOOLS, Bearing Shaving and Burnishing (Main and Connecting Rod)
5218

TOOLS, Body and Fender Repair, (Hand)
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco"—*See adv. p. 142*
Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind.—*Illustration & prices, p. 160*
Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland, Ohio—*Illustration & prices, p. 170*
Fostoria Pressed Steel Corp., Dept. CM-2, N. Main St., Fostoria, Ohio—*Prices & warehouse stocks, p. 101*
Hammett Mfg. Co., 13th & Oak, Kansas City, Mo.—*See adv. p. 164*
Peck, Stow & Wilcox Co., 217-313 Center St., Southington, Conn. "Pexto"—*Illustration & prices, p. 160*
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley-Atha." (Sole distributors)—*Illustrated, p. 149*

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

35 518 1921 2017 2115
2627 2841 3256 3509 4549
4644 4726 5709 5763 6191
6461 6717a 6745

TOOLS, Body and Fender Repair (Portable Electric)
3779

TOOLS, Brake Band
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley" (Sole distributors)—*Illustrated, p.* 149
5709 6461 6717a

Tools, Brake Lining Stretching
See Stretchers, Brake Lining

TOOLS, Brake Testing
(See also Gages, Brake and Drum Concentricity)
3240 3817 4353 5049 6551

TOOLS, Clutch Pilot
Shepard & Moore, Inc., 1514 Prospect Ave., Cleveland, Ohio "Shur-Shot" —*Illustration, description & prices, p.* 65

Tools, Cotter Pin
See Pullers, Cotter Pin

TOOLS, Crank Pin Truing
336 5441 5578

TOOLS, Cylinder Honing
(Abrasive tools for use in drill presses for cylinder refinishing work)
Council Engineering Co., 1723-25 Third Ave., Moline, Ill.—*Description & prices, p.* 153
Sunnen Products Co., 7900 Manchester St., St. Louis, Mo.—*Illustration, description & prices, p.* 23
336 1019 1307 2113 2436a
2615 3472 3794 3879 4662
5775 5801 6745

TOOLS, Cylinder Reboring (Portable)
(See also Machines, Cylinder Reboring; also Bars, Boring; also Tools, Cylinder Honing)
St. Louis Tool & Mfg. Co., 3300 N. Broadway, St. Louis, Mo. "S-L"—*Illustrated & described, p.* 153
Storm Mfg. Co., 406 (N.) Sixth Ave., S., Minneapolis, Minn.—*Illustrated & described, p.* 151.
349 2113 2436a 4762 5192
5416 5456 5578 5715 5775

TOOLS, Cylinder Regrinding (Portable)
(See also Tools, Cylinder Honing)
349 2848 5578

TOOLS, Demountable Rim Contracting
Hercules Products Co., 113 State St., St. Joseph, Mich.—*Illustration, description & prices, p.* 166
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich.—*Prices, p.* 68
510 686 765 1669 2717
3015 3794 3894 4757 5038
5135 5410 5424 6197 6630
6733

Tools, Fender Repair
See Tools, Body and Fender Repair

Tools, Frame Straightening
See Straighteners, Frame

TOOLS, Front Axle Bushing Removing and Replacing
5489a

TOOLS, Gear Ring Riveting
3256 6611

TOOLS, Generator Bracket Saving
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa.—*See adv. p.* 142

TOOLS, Ignition Point Refinishing
2626

TOOLS, Key Cutting
1201

TOOLS, Lathe and Planer
250 1589b 2684 3986 5058
5629 6730

TOOLS, Metal Finishing (Portable Electric)
(Portable flexible shaft machines with attachments for grinding, polishing, sanding, etc.)
83 532 633 645 1031
3769 4252 4269 5783 6616

TOOLS, Piston Fitting
3256

TOOLS, Piston Pin Hole Grinding
2848

TOOLS, Piston Pin Honing
35 756

TOOLS, Piston Pin and Connecting Rod Bushing Honing
336 2615

TOOLS, Piston Pin Removing and Installing
Hammett Mfg. Co., 13th & Oak, Kansas City, Mo. (For Fords only)—*Illustrated, p.* 164
2084 2627 2841 3201 4241
5753

TOOLS, Piston Ring Compressing
(To facilitate the entering of piston and ring into cylinder)
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco" — *See adv. p.* 142
26 35 100 224 681
2795 3492 4241 4299 5039
5105 5451 5753 6208 6365
6488 6491 6559

TOOLS, Piston Ring Groove Cleaning
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco" — *Illustration, description & prices, p.* 142
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
35 2627 2676 2795 3918
4241 4726 5753 6208 6471
6717a

TOOLS, Piston Ring Removing
(Special pliers or tongs for installing or removing rings from pistons)
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco" — *See adv. p.* 142
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
35 4241 4663 5212 6208
6717a

Tools, Planer
See Tools, Lathe and Planer

TOOLS, Reamer Sharpening
3256 6630

TOOLS, for Replacing Lubricating Fittings
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich.—*Prices, p.* 68

Tools, Rim Contracting
See Tools, Demountable Rim Contracting

Tools, Service Station
See Tools and Machines, Service Station

Tools, Soldering
See Irons, Soldering

TOOLS, Spoke Straightening (For Model A Fords)
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich.—*Prices, p.* 68

TOOLS, Spring Coiling
5817

TOOLS, Spring Leaf Separating
1178

TOOLS, Spring Service Station
336 1920

TOOLS, Spring Shackle
(For use in removing or replacing shackle bolt bushings)
336 6208

TOOLS, Spring Spreading
(For lengthening springs so that shackles and bolts slip easily into place)
4241

TOOLS, Starter Ring Gear Aligning
2754

TOOLS, Storage Battery Repair
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco" — *See adv. p.* 142
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*See adv. p.* 149
35 100 559 560 756
812 1084 1219 2703 3256
3537 3794 3989 4523 4672
4708 6107 6137 6208 6355
6374 6461 6561 6586a

TOOLS, Striping
3999 4603 5077

TOOLS, Tap Sharpening
6630

TOOLS, Thread Restoring
4241 5083

TOOLS, Tire
(For taking off and putting on tires; for rim tools—see Tools, Demountable Rim Contracting)
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich.—*Prices, p.* 68
510 532 656 726 1089
1132 1604 2017 2158 2676
3116 3786 3794 4549 5038
6197 6222 6503

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

TOOLS, Tire Chain Attaching
(Screw or toggle clamps to draw ends of tire chains together when putting on wheel so they may be easily hooked or fastened)
1077 4791

TOOLS, Tire Chain Repair
(For removing old and applying new cross sections on tire chains; see also Pliers, Tire Chain)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Weed"—*See adv. p.* 40
142 623 1077 3518 3774 6330

TOOLS, Tire Deflating
(For holding down valve plunger to allow air to escape without removing the plunger)
346 5534

TOOLS, Tire Spreading
(For tire spreading machines—see Machines, Tire Inspecting)
Loock & Co., R. J. 343-45 N. Gay St., Baltimore Md. "Lightnin"—*Illustrated & prices, p.* 59
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich.—*Prices, p.* 68
510 532 1253a 1549 2841 3537 3774 4233a 4277 6151 6197 6649

TOOLS, Tire Tread Rolling
3894

TOOLS, Tire Valve Fishing
5465

TOOLS, Tire Valve Rethreading
Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio—*See adv. p.* 73
1602 5465

TOOLS, Tire Vulcanizing
Shaler Co., 728 Fourth St., Waupun, Wis.—*See adv. p.* 165
510 3894 5520

TOOLS, Tube Flaring
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco"—*See adv. p.* 142
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill.—*See adv. p.* 170
35 2841 3016 3256 5753

TOOLS, Valve Grinding
(For valve grinding machines—see Refacers, Valve (Electric); also Refacers, Valve (Hand)
26 83 224 656 672 681 696 726 759 1063 1107 1669 2410 3351 3414 3905 3998 4249 5105 5451 5657 5720 5753 5783 6208 6221 6559 6825

TOOLS, Valve Grinding (Air)
759

Tools, Valve Grinding (Portable Electric)
See Drills, Grinders and Polishers, Electric Portable

TOOLS, Valve Guide Cleaning
5485

TOOLS, Valve Key Inserting and Removing
1160

TOOLS, Valve Lifting and Spring Compressing
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y. — *See adv. p.* 63
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Sunnen Products Co., 7900 Manchester St., St. Louis, Mo. — *Illustration, description & prices, p.* 23
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
193 224 672 681 726 1160 1627 1639 1905 2017 2084 2410 2795 2841 3002 3201 3220 3256 4241 4600 4757 5105 5155 5212 5563 5775 5801 6208 6497 6559 6825

Tools, Valve Refacing
See Refacers, Valve; also Tools, Valve Grinding

TOOLS, Valve Seat Refinishing
(Special reamers for refinishing worn or pitted valve seats; for tools for installing new valve seats—see Tools, Valve Seat Renewing)
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*See adv. p.* 149
83 124 501 518 655 672 756 1019 1058 1063 1327 1669 1919 2113 3256 3271 4241 4348a 4804 5484 5578 5580 5657 6221 6459 6461 6471 6593 6605 6745 6825

TOOLS, Valve Seat Renewing
(For installing new valve seats; for valve seat refinishing tools—see Tools, Valve Seat Refinishing)
83 553 1019 2821 4241 4348a 5218 5578

TOOLS, Wheel Retaining, Ring Removing and Replacing
Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich.—*Prices, p.* 68
6197

TOOLS, Wire Stripping
3003

TOOLS, Wire Terminal Forming.
1851

TOOLS and MACHINES, Service Station
(Special tools or machines for servicing one or more certain makes of cars)
100 3256 3907a

Top Dressing
See Dressing, Leather

Top Lining Dye
See Dye, Top Lining

Top Materials
See Cloth; also Leather

Top Parts and Fittings
See Bows; Covers; Enclosures; Fasteners; Fittings; Hardware; Holders; Irons; Protectors, Sockets; Straps

Top Patches
See Patches, Top Repair

Top Repair Cement
See Cement, Top Repair

TOPS, Rumble Seat
(Advertisers in this publication only)
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. —*See adv. p.* 48

TORCHES, Welding, Cutting and Brazing
(For complete oxy-acetylene outfits—see Machines and Equipment, Oxy-Acetylene Welding)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich.—*See adv. p.* 146
Union Carbide and Carbon Corp., Carbide & Carbon Bldg., New York, N. Y. "Prest-O-Weld"—*Illustration & prices, pp.* 168 & 169
67 555 738 792 2654 3016 3049 3212a 3891 4565 4708 4770 4803 5419 5608 5811 6171 6176 6304a 6487 6586a

TORCHES and FURNACES, Gasoline or Kerosene
221 342 626 1168 1343 1597 1923 2674 2826 3159 5091 5129 5419 5608 6217 6566

Tote Boxes
See Boxes, Tote (Sheet Metal)

Towers, Air
See Stations, Air or Water

Towing Equipment
See Bars, Towing, One-Man Type; Ropes, Chains and Bars, Tow; Trucks, Casters and Spare Wheels, Wrecking

Town Plates
See Plates, Town

Tracks, Overhead Carrying
See Systems, Overhead Carrying

Trailer Parts
See Brakes; Couplers; Equalizers; Wheels

TRAILERS, Automobile Transport
3258

TRAILERS, Commercial
316 1049 1157 1540 1584 1870 2151 2727 2731 2744 2772 3258 3283 3431 3470 3511a 3802 3832 4201 4301 4285 4325 4540 4640 5071 5095 5446 5561 5665 5668 6129a 6182 6377 6579 6638 6685

TRAILERS, Tourists'
316 1106 1157 5654a

TRANSFERS, Decalcomania
148 3868 4614 5605

Transmission Lever Guards, for Fords
See Guards, Transmission Lever, for Fords

Transmission Linings, for Fords
See Lining, Brake, for Fords

Transmission Locks
See Locks, Transmission

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Transmission Repair Equipment
See following heads
Clamps, Transmission Band Assembling
Cleaners, Differential and Transmission
Derricks, Transmission
Stands, Transmission and Differential Repair
Tools, Transmission Band Spring Connecting, for Fords

Transmission Shafts
See Shafts, Transmission, Clutch and Pump

TRANSMISSIONS, Auto
(For individual gears—see Gears and Pinions, Metal)
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
733 1305 1574 1605 1671
2156 3775 3838 4020 4297
4665 5101 5563 6577

Transparent Sheeting
See Sheets, Transparent

TRAPS, Refuse (For Cylinder Hones)
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa.—*Illustrated & described, p.* 142

Trays, Ash
See Receptacles, Ash

Trestles
See Horses and Trestles

Trimmers, Battery Post and Separator
See Tools, Storage Battery Repair

TRIMMINGS, Metal
(See Fasteners, Curtain; Fittings, Top; Handles, Car Door; Hinges, Door; Locks, Door (Automobile); Irons, Slat)
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky.—*See adv. p.* 117
295 360 720 1309 3016
5543 5654 6783

TRUCK-TRACTORS
28 636a 1164 1346 1593
1881 2040 2119 2351 2433
2667 2679 2731 3029 3048
3458 3558 5747 6569 6691
6795a

TRUCKS, Acetylene and Oxygen Tank
555

TRUCKS, CASTERS and SPARE WHEELS, Wrecking
(For towing in cars with damaged wheels or axles)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn.—*See adv. p.* 40
142 3774 3845 4258 6611

TRUCKS, Factory
87 180 213 507 1881
2009 2669 2814 3429 3570
4253 5409a 5446 5504 5505
5690 6808

Trucks, Motor
See Automobiles, Commercial

TRUCKS, Rear Axle
3256

Trucks, Repair
See Creepers, Repair

Trunk Carriers and Racks
See Racks, Trunk

TRUNKS, Leather, Fabric and Board
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass—*Illustrated & described, p.* 48
Pickard & Co., H. M., Avoca, N. Y. "Duro-Bilt," "Dreadnaught," "Patrician," "Vogue" — *Illustrated, p.* 69
10 75 576 641 1928
2003 2058 2077 2319 2628
2773 3410 3540 3556 3720
3978 4262 4270 4701 5003
5515 5552 5706 5814 5819
6114 6556

TRUNKS, Metal
(See also Carriers, Luggage Folding)
Pickard & Co., H. M., Avoca, N. Y. "Dreadnaught," "Patrician," "Vogue," "Duro-Bilt" — *Illustrated, p.* 69
Watts Morehouse Mfg. Corp., 2322 E. Michigan Ave., Jackson, Mich. "Steelwood"—*Illustration, description & jobbing centers, p.* 69
708 1576 1667 1675 2003
2077 2384 2773 3277 3409
3540 3794 4701 4747 5552
6597

Trusses, Rear Axle, for Fords
See Rods, Rear Axle Truss, for Fords

TRUSSES, Roof
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p.* 101

TRUSSES, Roof (Standard Bowstring)
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p.* 101

Tube Bending Coils
See Coils, Tube Bending (Wire)

Tube Deflators
See Tools, Tire Deflating

Tube Patches
See Patches, Tube Repair

TUBES, Inner
(For outer casings or shoes — See Tires, Pneumatic)
(Advertisers in this publication only)
Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. "Durwood Gopher," "Red Wing"—*See adv. p.* 86
Gates Rubber Co., 999 S. Broadway, Denver, Colo.—*See adv. p.* 86

Tubes, Mica
See Mica Sheets, Tubes, Washers and Cores

TUBING, Brass and Copper
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
295 3016 3507a 4011 4228
4653 5510a 6629a

Tubing Connections
See Fittings, Tube (Copper or Brass)

TUBING, Engine
Powell Muffler Co., 316 Catherine St., Utica, N. Y.—*See adv. p.* 112
4750 5702 5731

Tubing, Fibre
See Fibre, Hard

Tubing Fittings
See Fittings, Tube (Copper or Brass)

Tubing, Flexible Control
See Conduit, Flexible Car Wiring

TUBING, Flexible Metallic
(Crimped or wound tubing for exhaust piping, carburetors, heaters, speedometer shaft covering, wire covering, etc.; see also Tubing, Oil and Gasoline Line)
American Metal Hose Co., 67 Jewelry St., Waterbury, Conn.—*Branch offices, p.* 132
Chicago Tubing & Braiding Co., 216-24 N. Clinton St., Chicago, Ill. "Rex-Tube" — *Illustrated & described, p.* 133
International Metal Hose Co., 10109-15 Quincy Ave., Cleveland, Ohio—*Specifications, p.* 135
171 280 718 1133 1177
1815 2037 2108 3045 4014
4656 6163 6335 6818

TUBING, Oil and Gasoline Line
(Brass, copper, aluminum, etc., cut and bent to form)
4653 5702 5731 6163 6210

TUBING, Soft Rubber
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic"—*See adv. p.* 134
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. — *See adv. p.* 279
280 634 1146 1240 1274
1591 1664 1829 1862 1893
1909 2029 2071 2365 2412
2416 2773 3324 3414 3844
3903 3957 4302 4525 5049
5451 6160 6344

TUBING, Spaghetti and Loom
1815

Tubing Unions
See Fittings, Tube (Copper or Brass)

TURN-BUCKLES, Wrought
41 1234 1823 5156

TURNTABLES, Automobile
(See also Casters, Garage)
1025 2711 6324 6695

TWEEZERS, Locking
(For putting in and pulling out valve or cotter pins, shims, ball bearings, etc.)
6488

TWINE, Tufting
801

UNDERCOATS, Fender and Hood
Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio—*See adv. p.* 31
38 143 2389 5541

Undercoats, Nitro-Cellulose Base
See Lacquer

UNDERCOATS, Oil-Base
(For nitro-cellulose and pyroxylin finishes)
Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio—*See adv. p.* 31
38 177 586 1022 1186
2389 4756 5136 5514 5541

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

UNDERCOATS, Pyroxylin Base
(For nitro-cellulose and pyroxylin finishes)
Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio—*See adv. p.* 31
33 38 1660 2389 5541

Undercutters
See Machines, Commutator Turning and Insulation Undercutting

Unions, Hose
See Connections, Tire Pump

Unions, Tubing
See Fittings, Tube (Copper or Brass)

Universal Joint Covers
See Boots, Steering Knuckle and Joint

Universal Joint Discs
See Discs, Universal Joint

Universal Joint Parts
See Parts, Universal Joint

Universal Joints
See Joints, Universal

Upholstery Dressing
See Dressing, Leather; also Dressing, Mohair; also Dressing, Top (Weatherproof)

Upholstery Fabrics
See Broadcloth, Upholsterery; also Corduroys, Upholstery; also Whipcord, Upholstery; also Plush, Upholstery; also Velvet, Upholstery; also Velours, Upholstery

Vacuum Brakes
See Brakes, Power

Vacuum Cleaners
See Cleaners, Vacuum

Vacuum Tank Boosters
See Boosters, Vacuum

Vacuum Tanks
See Systems, Fuel Feed (Vacuum Tank Type)

Valve Cores
See Valves, Tire

Valve Dust Caps
See Caps, Tire Valve Dust

Valve Fittings, Engine
See Adjusters, Valve Stem; Guides, Valve; Packing, Valve; Retainers, Valve Spring; Rods, Adjustable Valve Lift; Rotators, Valve; Seats, Valve; Silencers, Overhead Valve

Valve Repair Equipment, Engine
See Compounds, Valve Grinding; Extractors, Valve Grinder; Lifters; Refacers; Tools, Valve

VALVES, Ball Check
(Small ball check valves with tubing connections; see also Fittings, Tube (Copper or Brass)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
1249 1618 3016 3337 3713 6735

VALVES, Cut-Out
(For mufflers, heaters, etc.; for cut-out pedals—see Pedals, Horn and Cut-Out)
169 268 1287 1842 2402 2411 3544 3985 4682 4757 5212 5720 5733 6675

VALVES, Engine Poppet
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. "Permite"—*Illustrated, p.* 10
Burgess-Dall Corp., 517 Peyton St., Geneva, Ill. "B-N" (Sole distributors)—*Branch offices, p.* 203
Emsco Asbestos Co., 206 S. Crawford St., Downey, Calif. — *Illustration, description & warehouse stocks, p.* 110
McQuay-Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo. "Rich" (Distributors for Wilcox-Rich Corp., 9771 French Rd., Detroit, Mich.)—*See adv. p.* 113
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. (For Ford & Chevrolet cars)—*See adv. p.* 118
Toledo Steel Products Co., 3300 Summit St., Toledo, Ohio—*Illustration, description & branch offices, p.* 136
Wilcox-Rich Corp., 9771 French Rd., Detroit, Mich (McQuay - Norris Mfg. Co., Cooper & Southwest Aves., St. Louis, Mo., and King Quality Products Co. 2320 Cooper St., St. Louis, Mo., sole distributors)—*Illustrated, p.* 137
121 705 799 800 1063 1229 1889 3102 3728 3873 4556 4665 5491 5563 6141 6169 6192 6717

Valves, Gasoline Reserve
See Valves, Two-Way Tank

VALVES, Hose (Radiator Filling)
Hansen Mfg. Co., 1786 E. 27th St., Cleveland, Ohio — *Illustration, description & prices, p.* 144

VALVES, Needle
1249 1618 3502 3563 6171 6735

Valves, Relief (Radiator)
See Condensers and Relief Valves, Radiator

VALVES, Safety or Emergency
(For safeguarding contents of tanks—protection in case of fire or broken off faucets)
2697 3713

VALVES, Tire
Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio — *Illustrated & described, p.* 73
Peck Spring Co., 68 Broad St., Plainville, Conn. — *Illustrated & described, p.* 72
Schrader's Son, A., 470 Vanderbilt Ave., Brooklyn, N. Y. — *Prices, p.* 72
22 1602 1840 4643 5173 5465 6615 6663

VALVES, Two-Way Tank
(Fuel reserve valves or cocks)
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. — *See adv. p.* 170
3016 5142a

Vanity Cases
See Cases, Toilet, Vanity, Card and Smoking

Vaporizers, Electric
See Heaters, Mixture

Varnish Removers
See Removers, Paint, Enamel and Varnish

Varnish Sprayers
See Sprayers, Paint, Varnish and Lacquer

Varnish Spraying Booths
See Booths, Spraying (Paint and Varnish)

VASES, Bouquet
131 617 2678 2809 3772 4507 4735 5179 5604 6337 6810

VELOURS, Upholstery
725 3485 4542 5200

VELVETS, Upholstery
3411

Ventilating Door Hooks
See Hooks, Door Ventilating

VENTILATORS, Bus
1866

VENTILATORS, Closed Car
1557 1651 2668 2758 2809 2819 2860 4227 4791 5451

VENTILATORS, Cowl
3974 4215 5421 5592

VENTILATORS, Roof
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p.* 101

VENTS, Tank Body
2697 3713

VISCOSIMETERS
197 6493

Vise Grips or Jaws
See Grips or Jaws, Vise

VISES, Battery
559 6818

VISES, Machinists' Bench
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. "Acco" (Sole distributors for Manley Mfg. Co., 929 Connecticut Ave., Bridgeport, Conn.)—*Illustrated, p.* 40
Columbian Vise & Mfg. Co., 9017 Bessemer Ave., Cleveland, Ohio — *Illustration, description, specifications & prices, p.* 167
Parker Co., Charles, 48 Elm St., Meriden, Conn. — *Illustrated & described, p.* 167
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Stanley-Atha." (Sole distributors)—*See adv. p.* 149
142 184 272 635 1232 1887 2113 2159 2410 3010 3774 3905 4338 4624 4694 4766 5068 5159 5709 6461 6660 6799 6817

VISES, Pipe
Armstrong Bros. Tool Co., 304 N. Francisco Ave., Chicago, Ill. — *Illustrated, p.* 159
250 1632 3107 4553 4624 4649 4694 4766 5068 5159 6166 6191 6730 6799 6817

VISES, Piston
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco" — *See adv. p.* 142
Council Engineering Co., 1723-25 Third Ave., Moline, Ill.—*See adv. p.* 153
35 91 100 1307 3256 4241 5753 6825

VISES, Piston, for Fords
91

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Visors, Door
See Ventilators, Closed Car

VISORS, Headlight
(See also Dimmers or Deflectors, Headlight; also Reflectors, Deflecting or Dimming)
96

VISORS, Top
(Leather or fabric strip to attach to top to close up space between top and windshield)
2139 2773

VISORS, Windshield
Automotives, Inc., 30 Euclid Ave., Newark, N. J. (Inside)—*See adv. p.* 47
Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. "Eyelid." (Inside) — *See adv. p.* 48
338 778 1905 2139 2404
2628 2664 2809 2819 3294
6150 6733

Voltmeters
See Ammeters, Instrument Board

Vulcanizer Steam Pressure Controllers
See Controllers, Vulcanizer Steam Pressure

VULCANIZERS, Portable
510 3239 3894 4764

VULCANIZERS, Shop
Shaler Co., 728 Fourth St., Waupun, Wis. — *Illustration, description & prices, p.* 165
36 211 510 532 640
1097 2699 3894 4202 4233a
4241 4277 5520 6333 6616
6649

Vulcanizing Cement
See Cement, Tire Repair

Vulcanizing Tools, Tire
See Tools, Tire Vulcanizing

WADDING and BATTING, Cotton
153 549 801 3422 3528
4218

Warmers, Foot
See Heaters, Automobile

WARMERS, Hand (Electric)
(Electric heating device to attach to steering wheel)
5176

Wash Aprons
See Aprons, Wash

Washer Cutters
See Cutters, Washer or Gasket

Washer Punches
See Punches, Arch or Washer

Washers, Air
See Cleaners, Air

WASHERS, Automobile (Brushes)
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass.—*See adv. p.* 149
138 811 1040 2154 2482
2857 3912 4343 4550 5645
6461

WASHERS, Automobile (Equipment)
(Overhead attachments, nozzles, etc.)
676 1141 2075 2329 3794
4353 4661 5197 6145

WASHERS, Automobile (Fountain Brushes and Mops)
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y. "Ace"—*See adv. p.* 63
1040 1055 2154 2857 3002
4343 6344a 6619

WASHERS, Automobile (Systems)
(Water, steam and compressed air)
American Chain Co., 926 Connecticut Ave., Bridgeport, Conn — *Illustrated, p.* 40
Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich.—*Illustrated, p.* 21
Brunner Mfg. Co., 1800 Broad St., Utica, N. Y. (Hydraulic)—*Illustrated & described, p.* 143
Champion Pneumatic Machinery Co., 8170 S. Chicago Ave., Chicago, Ill. —*Illustrated & described, p.* 142
Cold Steam Corp., Charlottesville, Va. (Sole distributors, Fuelo Engineering Corp., Room 1932, 342 Madison Ave., New York, N. Y.)—*Illustrated, p.* 4
Curtis Pneumatic Machinery Co., 1927 Kienlen Ave., St. Louis, Mo. (Air and hydraulic) — *Illustrated & described, p.* 141
Hobart Brothers, Box C50, Canal Locks Square, Troy, Ohio—*Illustrated, p.* 140
Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill.—*See adv. p.* 170
United States Air Compressor Co., 5316 Harvard Ave., Cleveland, Ohio — *Illustrated & described, p.* 145
142 577 759 1086 1213
1345 1559 1587 1831 2051a
2147 2394 2473 2646 2683
2766 2792 3016 3406 3513
3774 4036 4222 4603 4775
5188 5510 6324 6604 6611
6745

WASHERS, Brass and Copper
Aetna Metal Products Co., 1824 Washington Ave., St. Louis, Mo.—*Illustration & prices, p.* 124
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co"—*Illustrated, p.* 117
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*Illustrated, p.* 122
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill. — *See adv. p.* 99
27 52 175 295 360
1095 1158 2432 3212 4607
4688 4697 5104 5765 6323a

WASHERS, Bronze
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*Illustrated, p.* 122
27 174 2039 6323a

Washers, Cork
See Gaskets, Cork

Washers, Engine
See Cleaners, Engine

WASHERS, Felt
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. —*See adv. p.* 96
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Fel-Pro" —*Illustration & branches, pp.* 97 & 98
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio (For Ford & Chevrolet cars)—*See adv. p.* 118
Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill. — *See adv. p.* 99
27 47 49 258 509
717 1250 1271 2046 2047
2322 3709 4607 4697 5563
6480 6651

WASHERS, Finishing
27 4607 5053

Washers, Hard Fibre
See Fibre, Hard

WASHERS, Iron & Steel
Kales Stamping Co., 1669 W. Lafayette Blvd., Detroit, Mich.—*See adv. p.* 61
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire" —*Branches, p.* 123
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*Illustrated, p.* 122
16 27 175 1158 1234
2432 2702 3201 3212 3817
4536 4665 4688 4697 5213
6221 6323a

Washers, Leather
See Gaskets, Leather

WASHERS, Lock
(See also Nuts, Lock)
Aetna Metal Products Co., 1824 Washington Ave., St. Louis, Mo.—*Illustration, prices & sizes, p.* 124
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*See adv. p.* 124
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "Thrift-Pak" —*See adv. pp.* 246 & 247
National Umbrella Frame Co., Penn St. & Belfield Ave., Philadelphia, Pa. "Never Slip"—*Illustrated & described, p.* 125
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "Diamond" — *Illustrated, p.* 148
175 575 1626 2033 2472
2702 3212 3777 4240 4243
4264 4271 4746 4763 5093
5519 5753 6139 6559 6586
6662 6679

Washers, Mica
See Mica Sheets, Tubes, Washers and Cores

Washers, Paper
See Gaskets, Paper

Washers, Pump
See Gaskets, Leather

WASHERS, Spacing
Aetna Metal Products Co., 1824 Washington Ave., St. Louis, Mo. —*Illustration, prices & sizes, p.* 124
Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. "Au-Ve-Co"—*See adv. p.* 117
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y.—*See adv. p.* 243 *& Opposite Inside Back Cover*
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*See adv. p.* 124
Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. "Thrift-Pak" —*See adv. pp.* 246 & 247
United Screw & Bolt Corp., Cleveland, Ohio & Chicago, Ill.—*Illustrated, p.* 122
52 175 242 337 360
1626 2472 2702 3212 5753
6323a

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Washers, Steel
See Washers, Iron and Steel

Washers, Thrust
See Shims and Liners

WASHERS, Windshield and Window
(With water reservoir, self-fed felt pad and rubber squeegee)
1050

WASHERS, Wrought
United Screw & Bolt Corp., Cleveland, Ohio, & Chicago, Ill.—*Illustrated, p.* 122
175 4536 5156 6323a

Washing Brushes
See Washers, Automobile (Brushes); also Washers, Automobile (Fountain Brushes and Mops)

Washing Machines, Metal Parts
See Machines, Washing (Metal Parts)

WASTE, Cotton
(For wiping rags—see Wipers and Polishing Cloths)
651 2157 2607 2608 2777
3814 3820 5628 5705 6776

Watch Holders
See Holders, Watch

Watches
See Clocks

Water Circulating Pumps
See Pumps, Water Circulating

Water Circulating Regulators
See Regulators, Water Circulating

WATER, Distilled
(For use in storage batteries)
2755 2762

Water Pump Impellers
See Impellers, Water Pump

Water Stations
See Stations, Air or Water

Water Temperature Indicators
See Meters, Water Temperature Indicating

Waterproof Solutions
See Dressing

Weather Strips
See Strips, Windshield Weather

WEBBING, Jute and Cotton
231 781 801 2360 2378
2773 3422 5214 5637 5794

Wedge Plates
See Plates, Demountable Rim Wedge

Weight Plates
See Plates, Load Data

Welders' Clamps
See Clamps, Welders (Oxy - Acetylene)

Welding Compounds and Flux
See Compounds, Welding

Welding Machines
See Machines and Equipment, Electric Welding (Arc); also Machines and Equipment (Oxy - Acetylene Welding)

Welding Rods
See Rods, Welding

Welding Torches
See Torches, Welding, Cutting and Brazing

WELLS, Tire (Fender)
2115

Wheel Dressers
See Dressers, Emery Wheel

Wheel Parts and Accessories
See Discs; Lifters; Locks; Parts, Wheel; Rings, Wire Wheel

Wheel Removing Equipment
See Cranes; Knockers; Pullers

Wheel Testing Equipment
See Gages, Wheel and Axle Aligning; Machines, Balancing, Wheel

Wheel Tightening Compounds
See Compounds, Wood Wheel Tightening

WHEELS, Cast Metal
Motor Wheel Corp., Lansing, Mich. "Spoksteel" — *Illustration & distributors, p.* 139
198 1015 1535 1898 2359
2800 3021 3230 3876 4005
4629 6466 6506 6670 6685

WHEELS, Change-Over Unit
2070 3021 3967

WHEELS, Disc (Aluminum)
6680

WHEELS, Disc (Steel)
Motor Wheel Corp., Lansing, Mich. "Tuarc," "Disteel" — *Illustration & distributors, p.* 139
770 3021 4005

WHEELS, Dual Pneumatic
198 770 1015 1535 1898
2143 2800 3021 3230 3876
4629 5417 6351 6506 6685

Wheels, Emergency
See Wheels, Special Pneumatic Spring and Emergency

Wheels, Emery
See Wheels, Grinding

WHEELS, Grinding
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio. "U. S."—*See adv. p.* 17
Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. "Valvo"—*See adv. p.* 149
11 152 633 1031 4235
4761 5565a 5663 5744 6332
6459 6461

WHEELS, Malleable Iron
6351

WHEELS, Special Pneumatic, Spring and Emergency
4648

Wheels, Spoked
See Wheels, Cast Metal

WHEELS, Steering, Non-Locking (Non-Tilting)
584 3035a

WHEELS, Steering, Non-Locking (Non-Tilting) (For Ford and Chevrolet Cars)
1905 3035a

WHEELS, Trailer
770 1535 2359 3230 3876
4275 5417 6506

Wheels, Trailing, for Trucks
See Attachments, Six Wheel, for Trucks

WHEELS, Wire
Motor Wheel Corp., Lansing, Mich.—*Illustration & distributors, p.* 139
770 1603 4005

WHEELS, Wood
Motor Wheel Corp., Lansing, Mich.—*Illustration & distributors, p.* 139
234 1824a 2800 4005 4275
5417

WHIPCORD, Upholstery
3411 3422

Whistles, Exhaust
See Horns, Exhaust

WICKING, Candle
Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. "Adpasco"—*See adv. p.* 96
49 3466 6668

WICKING, Felt Lubricator
(For felt washers—see Washers, Felt)
Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. "Fel-Pro"—*See adv. pp.* 97 & 98
47 717 1250 2046 2047
6651

Wicks, Lamp
See Washers, Felt

WINCHES and BLOCKS, Car Extracting
564 5764

WINCHES, Truck
564 589 706 2744 2772
3283 3754 3774 3833 4031
5193 5446 5472 5557 5764
6654

WINCHES, Truck (Gas or Electric Operated)
3833 5764

Windings, Generator Field Coil
See Coils, Generator Field

Windings, Generator and Starter Armature
See Armatures

Windings, Magneto Armature
See Armatures

Windlace, Rubber
See Strips, Windshield Weather

Window Channels
See Channels, Metal; also Channels, Rubber; also Channels, Felt

Window Regulators
See Regulators, Window

Window Washers
See Washers, Windshield and Window

Windows, Curtain
See Windows, Glass Curtain; also Lights, Curtain

WINDOWS, Glass Curtain
(Bevel glass window with metal and wood frame for use in place of celluloid lights in top curtains)
720 1520 1536 2672 2773
3520 5627

Windows, Show
See Fronts, Store

WINDOWS, Steel
(Advertisers in this publication only)
Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind.—*See adv. p.* 101

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Windshield Cleaner Parts
See Parts, Windshield Cleaner

Windshield Fittings
See Cleaners; Heaters; Hinges; Screens; Shields, Wing; Visors; Washers, Windshield and Window

Windshield Glass Gages
See Gages, Windshield Glass

Windshields
See Shields, Wind

Wings, Glass Windshield
See Shields, Wing (For Open and Closed Cars)

Winter Top Enclosures
See Enclosures, Panel Top

WIPERS, Oil Rod
224 6218

WIPERS and POLISHING CLOTHS
(For cotton waste—see Waste, Cotton)
(Advertisers in this publication only)
Consumers Paper Co., 6301-31 E. Lafayette Ave., Detroit, Mich. —*Described, p.* 132
Flower City Specialty Co., 250 Mill St., Rochester, N. Y. "Elcaro," "Mon Kloth"—*Illustration, description, prices & jobbers,* pp. 36 & 37
Kozak, Inc., 1 Park Pl., Batavia, N. Y.—*See adv. p.* 76

Wire Cable
See Rope or Cable, Bronze Wire; also Rope or Cable, Steel Wire

Wire, Flexible Control
See Cable, Flexible Control

WIRE, for Enclosures, Fences, Window Guards, etc.
782

Wire Gages
See Gages, Drill and Wire

Wire Guards
See Guards, Safety, for Machinery; also Wire, for Enclosures, for Window Guards, etc.

WIRE, Phosphor Bronze, Brass and Copper
112 1289 4011 4236 4662a 4700

Wire Rope
See Rope or Cable, Bronze Wire; also Rope or Cable, Steel Wire

WIRE, Steel Spring
190 1287 2665 3143 5163

Wire Strippers
See Tools, Wire Stripping

Wires, Spark Plug
See Cables (Sets)

Wiring Cleats
See Cleats, Fibre Wiring

Wiring Conduit
See Conduit, Flexible Car Wiring

Wiring Sets, Ignition, Starting and Lighting
See Cables (Sets)

Woodworkers' Clamps
See Clamps, Woodworkers'

Wool Dusting Brushes
See Dusters, Wool

WOOL, Steel
5129

Work Benches
See Benches, Work

Worms and Worm Gears
See Gears, Worm Drive

Wrecking Casters, Dollies, Spare Wheels, Trucks, etc.
See Trucks, Casters and Spare Wheels, Wrecking

Wrecking Cranes
See Cranes, Truck

Wrenches, Crankcase Plug
See Funnel and Crankcase Wrench Combined

WRENCHES, Drain Plug
1063 5753

WRENCHES, Hub Cap
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. "Amco"—See adv. p. 142
Hubco Mfg. Co., 404 W. Conway St., Baltimore, Md. (For Chevrolet cars)—*Illustrated & described, p.* 138
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin" (For Chevrolet cars) — *Illustration & prices, p.* 59
35 224 656 1842 2822 3509 4757 5753 6559

WRENCHES, Magneto and Distributor
Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. "AMO"—*See adv. p.* 243 *& Opposite Inside Back Cover*
Hygrade Products, Co., 17 W. 60th St., New York, N. Y.—*See adv. p.* 90
Loock & Co., 343-45 N. Gay St., Baltimore, Md. "Lightnin" — *Illustrated, p.* 59
P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.—*See adv. p.* 30
337 339 1063 2472 2858 3537 4317 4556 4601 5687 6634

WRENCHES, Nut and Bolt
(See also Wrenches, Socket)
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa.—*See adv. p.* 142
Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. "Lightnin"—*Illustration & prices, p.* 59
Peck, Stow & Wilcox Co., 217-313 Center St., Southington, Conn. "Pexto"—*See adv. p.* 160
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio — *See adv. p.* 118
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "Triple Diamond"—*Illustrated, p.* 148
35 172 224 250 603 643 656 672 681 686 1132 1148 1299 1324 1589a 1669 2017 2158 2410 2714 3104a 3256 3270 3336 3438 3476 3537 3719 3918 4553 4556 4600 4632 4644 5002 5114 5148 5462 5563 5611 5647 5753 6191 6208 6374 6491 6497 6557 6679 6730

WRENCHES, Pipe
Armstrong Bros. Tool Co., 304 N. Francisco Ave., Chicago, Ill.—*Illustrated, p.* 159
Peck, Stow, & Wilcox Co., 217-313 Center St., Southington, Conn. "Pexto"—*See adv. p.* 160
Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. "Triple Diamond," "Whitaco"—*See adv. p.* 148
250 603 643 686 2456 2711 4553 4644 6191 6679 6730

WRENCHES, Portable Electric
United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio —*See adv. p.* 17
655 3905 6332 6459

Wrenches, Reamer
See Wrenches, Tap and Reamer

WRENCHES, Socket
Blackhawk Mfg. Co., Dept. C, 148 Broadway, Milwaukee, Wis.—*Illustrated, p.* 163
Truth Tool Co., 711 S. Front St., Mankato, Minn. "Cyclone" — *See adv. p.* 163
224 518 656 681 686 1132 1148 1299 1669 1813 2017 2846 3270 3438 3918 4284 4288b 4556 4600 4632 4726 4741 5611 5655 5719 5753 6208 6491 6557 6730

Wrenches, Spark Plug
See Wrenches, Nut & Bolt

WRENCHES, Special, for Fords
Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio—*See adv. p.* 118
Truth Tool Co., 711 S. Front St., Mankato, Minn.—*See adv. p.* 163
538 643 681 765 4241 4694 5103 5563 6208 6491 6497 6730 6745

WRENCHES, Tap and Reamer
623 756 1033 1082 1253a 2410 3270 3271 3986 4338 5700 5719 6146a 6311 6497

WRENCHES, Tappet
Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. (For Buick, Nash & Chevrolet cars)—*See adv. p.* 142
35 250 656 1132 2017 2714 3256 3918 4003 4556 4600 4726 6208 6491 6497

Yoke Ends
See Yokes, Special

Yoke Pins
See Pins, Yoke

YOKES, Special
Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio—*See adv. p.* 124
Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. (For Ford & Chevrolet cars) — *Illustrated, p.* 119
643 720 1626 1906 2619 3268 6370 6730

ZINC (Plates, Slabs, Sheets and Strips)
1810 2044 2440 2695 3824

ZINCS, Battery
2440 3824

See Page 400 for Names of Companies Represented by Above Numbers

Digitized by Google

Manufacturers of Automotive Products

A Combined Alphabetical-Numerical List of Important Manufacturers Selling Automotive Products to the Trade. It Does Not Include Companies Who Sell Only to Other Manufacturers.

The name and address after the numbers here identify the companies listed by numbers anywhere in this book, as in the

CLASSIFIED BUYERS' GUIDE
TRADE NAME LIST

Also, arranged alphabetically, you can quickly find any company and its address.

Note: Advertisers are in bold type with page reference.

A

3—A & B Spring Mfg. Co., 719 W. Main St., Oklahoma City, Okla.
4—A. C. F. Motors Co., 30 Church St., New York, N. Y.
5—A-C Mfg. Co., 417 Sherman St., Pontiac, Ill.
6—AC Spark Plug Co., Flint, Mich.
8—Abbot-Downing Truck & Body Co., 80 S. Main St., Concord, N. H.
9—Abegg & Reinhold, 2533 E. 26th St., Los Angeles, Calif.
10—Abel & Bach Co., Tenth St., St. Paul Ave. & Hibernia St., Milwaukee, Wis.
11—Abrasive Co. (Div. of Simonds Saw & Steel Co.), Tacony & Fraley Sts., Philadelphia, Pa.
12—Abrasive Engineering Laboratories, Inc., Dept. F-1, 117 N. Jefferson St., Chicago, Ill.
14—Accuralite Co., McCracken Rd., Muskegon, Mich.
15—Accurate Gear Div. Republic Gear Co., Fifth Floor, Greenawalt Bldg., Springfield, Ohio.
16—Accurate Parts Mfg. Co., 735 Central Ave., Cleveland, Ohio. Adv. p. 131.
18—Acheson Graphite Corp., Buffalo Ave., Niagara Falls, N. Y.
20—Ackerman-Blaesser-Fezzey, Inc., 1258 Holden Ave., Detroit, Mich.
22—Acme Air Appliance Co., 254 Park Ave., Brooklyn, N. Y.
23—Acme Leather Belting Co., 88 Fairfax Rd., Rochester, N. Y.
24—Acme Machine Products Co., Willard St. & Hoyt Ave., Muncie, Ind.
26—Acme Mfg. Co., 1338 Clark St., Racine, Wis.
27—Acme Mfg. & Gasket Co., 3437 Market St., Philadelphia, Pa.
28—Acme Motor Truck Corp., Haynes St., Cadillac, Mich.
31—Acme Sales Co., 1017 Euclid Ave., Cleveland, Ohio.
33—Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit, Mich.
35—Acorn Mfg. Co., 424-26 W. 19th St., Erie, Pa. Adv. p. 142.
36—Adams-Barre Co., 1242 N. High St., Columbus, Ohio.
38—Adams & Elting Co., 1833 Seward St., Chicago, Ill.
39—Adams Grease Gun Corp., 239 Fourth Ave., New York, N. Y.
40—Adams Mfg. Co., 591 N. Chambers St., Galesburg, Ill.
41—Adell Mfg. Co., 61 E. River St., Orange, Mass.
42—Adjustable Bearing Co., 402 Virginia Ave., Indianapolis, Ind.
43—Adjustable Clamp Co., 425 N. Ashland Ave., Chicago, Ill.
44—Adkins, Young & Allen Co., 32 S. Jefferson St., Chicago, Ill.
46—Adriance Machine Works, 80 Richards St., Brooklyn, N. Y.
47—Advance Felt & Cutting Co., 611-C W. Lake St., Chicago, Ill.
48—Advance Goggle Co., 4551 Diversey Ave., Chicago, Ill.
49—Advance Packing & Supply Co., 808 W. Washington Blvd., Chicago, Ill. Adv. p. 96.
52—Aetna Metal Products Co., 1824 Washington Ave., St. Louis, Mo. Adv. p. 124.
53—Aetna Rubber Co., 132 Hanover Street, Boston, Mass.
56—Aff Machine Works, L. W., 231 Ninth St., San Francisco, Calif.
57—Aga Auto Lamp Co., 39 Oakland St., Amesbury, Mass.
58—Agner Simplex Co., 108 Dodge St., Burlington, Wis.
59—Ahlbell Battery Container Corp., 700 Market St., Waukegan, Ill.
60—Ahlberg Bearing Co., 317 E. 29th St., Chicago, Ill.
61—Ahrens-Fox Fire Engine Co., Colerain, Alfred & Cook Sts., Cincinnati, Ohio.
66—Air-Maze Corp., 313 Caxton Bldg., Cleveland, Ohio.
67—Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York, N. Y.
69—Air-Tight Steel Tank Co., Mansion St. & B. & O. R. R., Pittsburgh, Pa.
70—Air Valve Spark Plug Co., 3331 Superior Ave., Cleveland, Ohio (Sole distributors, Animated Spark Plug Co., 128 N. Wells St., Room 302, Chicago, Ill.)
71—Ajax Auto Parts Co., 15th St. & C. & N. W. R. R., Racine, Wis.
74—Ajax Rubber Co., Racine, Wis.
75—Ajax Trunk & Sample Case Co., 418 W. 25th St., New York, N. Y.
78—Akron Varnish Co., Firestone Blvd., Akron, Ohio.
81—Albany Hardware Specialty Mfg. Co., Albany, Wis.
82—Albaugh-Dover Mfg. Co., 2100 Marshall Blvd., Chicago, Ill.
83—Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
84—Albion Metal Products Co., 310 Washington St., Albion, Mich.
85—Albright Co., S. S., 1300-12 U St., Sacramento, Calif.
86—Alemite Corp., 2650 N. Crawford Ave., Chicago, Ill.
87—Alemite Die-Casting & Mfg. Co., Woodstock, Ill.
89—Alert Sales Co., 712 N. 16th St., Philadelphia, Pa.
91—Alexander, A. D., Charlotte St., Fredericksburg, Va.
93—All-American Products, Inc., 215 E. Parson St., Galion, Ohio.
94—Allan Mfg. & Welding Co., 726 Washington St., Buffalo, N. Y.
95—Allbestos Corp., 21st St. & Godfrey Ave., Philadelphia, Pa.
96—Allen, E. W., 47 W. Santa Clara St., San Jose, Calif.
97—Allen Auto Specialty Co., 16 W. 61st St., New York, N. Y.
98—Allen-Bradley Co., 494 Reed St., Milwaukee, Wis.
100—Allen Electric & Equipment Co., N. Pitcher St., Kalamazoo, Mich.
101—Allengrade Co., 2413 N. Broad St., Philadelphia, Pa.
102—Allen Mfg. Co., 133 Sheldon St., Hartford, Conn.
103—Allen Mfg. Co., W. D., 566 W. Lake St., Chicago, Ill.
104—Allied Industrial Products Co., 17 W. Elizabeth St., Chicago, Ill.
105—Allied Products Corp., Indiana Lamp Div., 4646 Lawton Ave., Detroit, Mich.
107—Allis-Chalmers Mfg. Co., Milwaukee, Wis.
108—Allis Co., Louis, 427 E. Stewart St., Milwaukee, Wis.
110—Allith-Prouty Co., 819 N. Bowman Ave., Danville, Ill.
112—Alloy Metal Wire Co., 13th & Pennsylvania Ave., Moores, Pa.
113—Alloy Steel Spring & Axle Co., Leroy & Horton Sts., Jackson, Mich.
114—All-Steel Equip Co., 100 John St., Aurora, Ill.
115—Alltex Weaving & Specialty Co., 212 Broadway, New York, N. Y.
116—Almetal Universal Joint Co., 1553 E. 55th St., Cleveland, Ohio. Adv. p. 104.
116a—Almond Mfg. Co., T. R., Ashburnham, Mass.
118—Alto Mfg. Co., 1647 Wolfram St., Chicago, Ill.
120—Aluminum Co. of America, 2400 Oliver Bldg., Pittsburgh, Pa.
121—Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio. Adv. p. 10.
124—Alvord-Polk Tool Co., Millersburg, Pa.
128—American Appliance Co., 317 N. Church St., Kalamazoo, Mich.
130—American Asbestos Co., Stanbridge & Sterigere Sts., Norristown, Pa.
131—American Automatic Devices Co., 500 S. Throop St., Chicago, Ill.
132—American Automobile Appliance Co., 2420 E. 14th St., Chattanooga, Tenn.
133—American Automotive Accessories Corp., Canton, Ill.
134—American Auto Products Co., 1317 L St., N. W., Washington, D. C.
135—American Blower Co., 6004 Russell St., Detroit, Mich.
136—American Body Co., 5113 E. Grand Ave., Dallas, Tex.
137—American Brake Materials Corp., 4660 Merritt Ave., Detroit, Mich.
138—American Brush Corp., 1113 N. Franklin St., Chicago, Ill.
138a—American Cable Co., New York Central Bldg., 230 Park Ave., New York, N. Y. Adv. p. 40.
139—American Can Co., 230 Broadway, New York, N. Y.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

141—American Car & Foundry Motors Co., 30 Church St., New York, N. Y.
141a—American Cement Machine Co., Keokuk, Iowa.
142—American Chain Co., 926 Connecticut Ave., Bridgeport, Conn. Adv. p. 40.
143—American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. Adv. p. 171.
146—American Cord & Webbing Co., 396 Broadway, New York, N. Y.
147—American Crayon Co., Sandusky, Ohio.
148—American Decalcomania Co., 4328 W. Fifth Ave., Chicago, Ill.
149—American Die & Tool Co., 401 N. Second St., Reading, Pa.
152—American Emery Wheel Works, Waterman, East River & Pitman Sts., Providence, R. I.
153—American Excelsior Corp., 1000 N. Halsted St., Chicago, Ill.
154—American Flatlite Co., 712 Reading Rd., Cincinnati, Ohio.
156—American Forge & Machine Co., 1600 Barth Court, S. W., Canton, Ohio.
157—American Gas Furnace Co., Lafayette, Spring & Elizabeth Sts., Elizabeth, N. J.
160—American Hammered Piston Ring Co., Bush & Hamburg Sts., Baltimore, Md. Adv. p. 2.
161—American Hard Rubber Co., Akron, Ohio.
163—American Injector Co., 1481 14th St., Detroit, Mich.
164—American Instrument Co., 1214 D St., N. W., Washington, D. C.
165—American-LaFrance & Foamite Corp., 100 E. LaFrance St., Elmira, N. Y.
166—American Lava Corp., 1427 William St., Chattanooga, Tenn.
167—American Leather Mfg. Co., 258 New St., Newark, N. J.
169—American Machine Products Co., 207 Market St., Marshalltown, Iowa.
170—American Machine Works, 316 Sixth Ave., N., St. Cloud, Minn.
171—American Metal Hose Co., 67 Jewelry St., Waterbury, Conn. Adv. p. 132.
172—American Metal Products Co., 1350 Burnham St., Milwaukee, Wis.
174—American Non-Gran Bronze Corp., Berwyn, Pa.
175—American Nut & Bolt Fastener Co., 2029 Doerr St., Pittsburgh, Pa.
176—American Oil Pump & Tank Co., Findlay & Dalton Sts., Cincinnati, Ohio.
177—American Paint Works, 424 Josephine St., New Orleans, La.
178—American Platinum Works, N. J. R. R. Ave. at Oliver St., Newark, N. J.
180—American Pulley Co., 4200 Wissahickon Ave., Philadelphia, Pa.
182—American Sales Book Co., Ltd., Fourth & Magee Sts., Elmira, N. Y.
182a—American Salpa Corp., 261 Fifth Ave., New York, N. Y.
184—American Scale Co., 210 Mfg. Exchange Bldg., Kansas City, Mo.
185—American Screw Co., 21 Stevens St., Providence, R. I.
186—American Shoe Machinery & Tool Co., 23rd & Dickson Sts., St. Louis, Mo.
188—American Sponge & Chamois Co., 47 Ann St., New York, N. Y. (Importers.)
189—American Stamping Co., 81 Burchard St., Battle Creek, Mich.
190—American Steel & Wire Co., 208 S. LaSalle St., Chicago, Ill.
192—American Thermo-Ware Co., 16 Warren St., New York, N. Y.
193—American Tool Co., 10 Pleasant St., Pawtucket, R. I.
194—American Truck & Body Co., Martinsville, Pa.
196—American Varnish Co., 1138 N. Branch St., Chicago, Ill.
198—American Welding & Mfg. Co., Griswold St., Warren, Ohio.
199—Amesbury Seat Mfg. Co., Ypsilanti, Mich.
200—Ames Co., B. C., Ames St., Waltham, Mass, Adv. p. 162.
201—Ampco Twist Drill Co., 811 Belden St., Jackson, Mich.
202—Anaconda Wire & Cable Co., 25 Broadway, New York, N. Y.
203—Anchor Electric Co., 7 N. Sixth Ave., Maywood, Ill.
204—Anchor Packing Co., 437 Chestnut St., Philadelphia, Pa.
205—Anchor Webbing Co., 300 Brook St., Pawtucket, R. I.
208—Anderson Co., 957 Garfield St., Gary, Ind.
209—Anderson Co., O. L., 1347 E. Fort St., Detroit, Mich.
210—Anderson Mfg. Co., 149 Sidney St., Cambridge, Mass.
211—Anderson Steam Vulcanizer Co., 1109 N. Hamilton Ave., Indianapolis, Ind.
213—Angle Steel Stool Co., Plainwell, Mich.
218—Annin & Co., 85 Fifth Ave., New York, N. Y.
219—Anshutz Co., 2183 Gratiot Ave., Detroit, Mich.
220—Anthony Co., Streator, Ill.
221—Anthony Co., 138 West Ave., Long Island City, N. Y.
222—Anti-Borax Compound Co., 1502 Wall St., Fort Wayne, Ind.
223—Anton-Ackerman Co., 130 Kansas Ave., Topeka, Kan.
224—Apco Mossberg Corp., Attleboro, Mass.
225—Apex Lamp & Mfg. Co., 2635 S. Wabash Ave., Chicago, Ill.
228—Apollo Magneto Corp., 79 Grand St., Kingston, N. Y.
229—Appleton Electric Co., 1701 Wellington Ave., Chicago, Ill.
231—Arbeka Webbing Co., N. Main & Bates Sts., Pawtucket, R. I.
233—Arcadia Truck Body Corp., 21 Murray St., Newark, N. Y.
234—Archibald Wheel Co., 140 West St., Lawrence, Mass.
235—Arco Battery & Plate Co., 209 E. Columbia Ave., Ft. Wayne, Ind.
236—Arco Co., 7301 Bessemer Ave., Cleveland, Ohio.
237—Arco Vacuum Corp., Div. of American Radiator Co., 40 W. 40th St., New York, N. Y.
240—Arizona Onyx Products Co., 114 E. Lincoln St., Phoenix, Ariz.
241—Armature Co., 7500 Stanton Ave., Cleveland, Ohio. Adv. p. 24.
242—Armature Rewinding Co., 3301 Washington Blvd., St. Louis, Mo.
243—Armiger Chemical Co., 2155 W. Austin Ave., Chicago, Ill.
244—Armitage & Co., John L. 245 Thomas St., Newark, N. J.
245—Armleder Truck Co., Eighth & Evans Sts., Cincinnati, Ohio.
246—Armour & Co., Curled Hair Div., 1355 W. 31st St., Chicago, Ill.
250—Armstrong Bros. Tool Co., 304 N. Francisco Ave., Chicago, Ill. Adv. p. 159.
251—Armstrong Cork Co., Cork Div., Lancaster, Pa. Adv. p. 100.
252—Armstrong-Johnston Mfg. Co., 97 N. Washington Ave., Columbus, Ohio.
253—Armstrong Mfg. Co., 303 Knowlton St., Bridgeport, Conn.
254a—Aro Equipment Corp., Bryan, Ohio.
256—Arrow Head Steel Products Co., 1101 Stinson Blvd., Minneapolis, Minn.
258—Arrow Supply Co., 123 W. Maryland St., Indianapolis, Ind.
259—Artcraft Fabrics, Inc., 35 E. Eighth St., New York, N. Y.
261—Art Metal Works, Aronson Sq., Newark, N. J.
263—Arvey Corp., 6400 E. Nevada Ave., Detroit, Mich.
265—Asbestos & Allied Products Co., 19 W. 60th St., New York, N. Y.
265a—Asbestos Mfg. Co., Huntington, Ind.
266—Asbestos Spinning & Weaving Corp., 55 W. 42nd St., New York, N. Y.
267—Asbestos Textile Co., 475 Fifth Ave., New York, N. Y.
268—Ashco Corp., 1547 University Ave., St. Paul, Minn.
270—As-Ke Fuemer Co., 2921 Stevens Ave., Minneapolis, Minn.
272—Athol Machine & Foundry Co., 82 South St., Athol, Mass.
274—Atia Sales Corp., 206 Broadway, New York, N. Y.
275—Atkins & Co., E. C., 402 S. Illinois St., Indianapolis, Ind.
276—Atlanta Auto Top & Trimming Co., 19 Piedmont Ave., Atlanta, Ga.
277—Atlantic Metal Hose Co., 360 W. 52nd St., New York, N. Y.
278—Atlantic-Pacific Mfg. Co., 124 Atlantic Ave., Brooklyn, N. Y.
279—Atlantic Stamping Co., 180 Ames St., Rochester, N. Y.
280—Atlantic Tubing Co., 1756 Cranston St., Providence, R. I.
281—Atlas Asbestos Co., North Wales, Pa.
284—Atlas Bolt & Screw Co., 1100 Ivanhoe Rd., Cleveland, Ohio.
285—Atlas Brass Foundry Co., 980 S. Park St., Columbus, Ohio.
286—Atlas Copper & Brass Mfg. Co., 2724-42 High St., Chicago, Ill. Adv. p. 157.
287—Atlas Foundry Co., 517 Lyons Ave., Irvington, N. J.
290—Atlas Press Co., 1840 N. Pitcher St., Kalamazoo, Mich.
291—Atlas Specialty Mfg. Co., 3255 Shields Ave., Chicago, Ill.
292—Atlas Tack Corp., 1079 Pleasant St., Fairhaven, Mass.
294—Atterbury Motor Car Co., Elmwood Ave. at Hertel, Buffalo, N. Y.
295—Attwood Brass Works, 745 Front St., Grand Rapids, Mich.
296—Atwater Kent Mfg. Co., 4700 Wissahickon Ave., Philadelphia, Pa.
297—Atwood Vacuum Machine Co., 2500 N. Main St., Rockford, Ill.
298—Auburn Automobile Co., S. Main St., Auburn, Ind. Adv. p. 34.
299—Auburn Ball Bearing Co., 28 Industrial St., Rochester, N. Y.
300—Auburn Button Works, 48 Canoga St., Auburn, N. Y.
301—Audubon Wire Cloth Co., Nicholson Rd. & Atlantic Ave., Audubon, N. J.
304—Aurora Equipment Co., 422 Cleveland Ave., Aurora, Ill.
305a—Austin Co., J. H., 5427 Hecla Ave., Detroit, Mich.
307—Autoberth Co., 832 W. Main St., Lansing, Mich.
309—Autocar Co., Lancaster Ave., Ardmore, Pa.
310—Au-To Compressor Co., 233 S. Mulberry St., Wilmington, Ohio.
311—Auto Con-Den-So-Meter Corp., 4111 Ravenswood Ave., Chicago, Ill.
312—Auto-Diesel Piston Ring Co., 4520 Superior Ave., Cleveland, Ohio.
313a—Auto Door Chek Specialty Co., 482 Mott Ave., New York, N. Y. Adv. p. 77.
315—Autographic Register Co., Tenth & Clinton Sts., Hoboken, N. J.
316—Auto-Kamp Trailer Co., 4014 Sheridan Ave., Saginaw, Mich.
319a—Automatic Door Corp., Owensboro, Ky.
320—Automatic Electric Heater Co., 1706 Race St., Philadelphia, Pa.
322—Automatic Safe Start Co., 313 Story Bldg., Los Angeles, Calif.
323—Automatic Screw Machine Products Co., 3435 W. 31st St., Chicago, Ill.
324—Automatic Seat Cover Corp., 120 E. 16th St., Dept. K, New York, N. Y. Adv. p. 48.
325—Automatic Time Stamp Co., 139 Atlantic Ave., Boston, Mass.
331—Automotive Fan & Bearing Co., Wildwood & Fern Aves., Jackson, Mich.
332—Automotive Gear Works, Eighth & S. O Sts., Richmond, Ind.
334a—Automotive Lock Corp., Cunard Bldg., 25 Broadway, New York, N. Y.
336—Automotive Maintenance Machinery Co., 816 W. Washington Blvd., Chicago, Ill.
337—Automotive Manufacturers, Inc., 569 Broadway, New York, N. Y. Adv. p. 243 and Opposite Inside Back Cover.
338—Automotives, Inc., 30 Euclid Ave., Newark, N. J. Adv. p. 47.
339—Automotive Specialty Corp., 382 Jefferson St., Brooklyn, N. Y.
341—Automotive Thrust Bearing Corp., 2021 S. Michigan Ave., Chicago, Ill.
343—Auto Moulding & Mfg. Co., 1926 S. Wabash Ave., Chicago, Ill.
344—Autoprimer Corp., 603 E. Washington St., Indianapolis, Ind.
345—Autopulse Corp., 2821 Brooklyn Ave., Detroit, Mich.
346—Autoquip Mfg. Co., 495 St. Paul St., Rochester, N. Y.
347—Auto Radiator & Fender Co., 229 Dolphin St., Baltimore, Md.
349—Auto Renewal Equipment Co., 650 Gateway Bldg., Minneapolis, Minn.
350—Auto Roll-Out Corp., 1103 Grand St., Hoboken, N. J.
351—Autoscrew Co., 355 W. Broadway, New York, N. Y.
352—Auto Sheet Metal Works, 6106 Avalon Blvd., Los Angeles, Calif.
356—Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. Adv. p. 55.
357a—Auto-Tank Lock Co., 117 Bradman Bldg., Bluefield, W. Va.
360—Auto-Vehicle Parts Co., 1032 Saratoga St., Newport, Ky. Adv. p. 117.
361—Autovent Fan & Blower Co., 1805 N. Kostner Ave., Chicago, Ill.
363—Available Truck Co., 2501 Elston Ave., Chicago, Ill.
364—Axelson Mfg. Co., Ltd., P. O. Box 337, Los Angeles, Calif.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

B

501—B. & H. Mfg. Co., 2033 E. Tenth St., Indianapolis, Ind. (Sole distributors, Basca Mfg. Co., 1911 Martindale Ave., Indianapolis, Ind.)
503a—B-L Electric Mfg. Co., 19th & Washington Sts., St. Louis, Mo.
505—Babin, Luke B., Moss St., White Castle, La.
506—Bache & Co., Semon, 636 Greenwich St., New York, N. Y.
507—Backus, Jr., & Sons, A., 1533 W. Lafayette Blvd., Detroit, Mich.
508—Backus Novelty Co., 400 W. Water St., Smethport, Pa.
509—Bacon Felt Co., Winchester, Mass.
510—Bacon Vulcanizer Mfg. Co., 1267 67th St., Oakland, Calif.
515—Badger Fire Extinguisher Co., 962 Park Square Bldg., Boston, Mass.
518—Badger Tool & Mfg. Co., 134 S. Clinton St., Chicago, Ill. (Sole distributors, Badger Sales Co., 134 S. Clinton St., Chicago, Ill.)
519—Baeder Adamson & Co., Richmond St. & Allegheny Ave., Philadelphia, Pa.
520—Baer Bros., 438 W. 37th St., New York, N. Y.
521—Bailey Mfg. Co., 32 High St., Amesbury, Mass.
523—Baird Lock Co., 216 W. Ontario St., Chicago, Ill.
524—Baker & Co., 54 Austin St., Newark, N. J.
525—Baker-Hansen Mfg. Co., 1900 Park St., Alameda, Calif.
526—Baker Mfg. Co., 154 W. Water St., Kankakee, Ill.
527—Baker Mfg. Co., Springfield, Ill.
528a—Baker & Sons, Geo., 651 N. Montello St., Brockton, Mass. (Sole distributors, J. H. Austin Co., 5427 Hecla Ave., Detroit, Mich.)
529—Baldwin, Pierce, Hooper & Slauson Aves., Los Angeles, Calif.
530—Baldwin-Duckworth Chain Corp., 369 Plainfield St., Springfield, Mass.
531—Ball Chemical Co., Fulton Bldg., Pittsburgh, Pa.
532—Balloon Tire Mould Co., 3210 S. Grand Ave., Los Angeles, Calif.
533—Ballou, Walter T., 2232 S. Orange Drive, Los Angeles, Calif.
535—Bantam Ball Bearing Co., 3702 W. Sample St., South Bend, Ind.
536—Barber Asphalt Co., 16th & Arch Sts., Philadelphia, Pa.
537—Barbour-Stockwell Co., 205 Broadway, Cambridge, Mass.
538—Barcalo Mfg. Co., 225 Louisiana St., Buffalo, N. Y.
539—Barclay Mfg. Co., 1013 S. Council St., Muncie, Ind.
541—Barcy-Nicholson Co., 2801 W. Fort St., Detroit, Mich.
542—Barkelew Electric Mfg. Co., 1208 Reynolds Ave., Middletown, Ohio.
543—Barkelew Metal Products Co., 2230 E. Richard St., Dayton, Ohio.
544—Barker Machine & Foundry Co., Sixth & Cayuga Sts., Philadelphia, Pa.
545—Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
546—Barnes Drill Co., 814 Chestnut St., Rockford, Ill.
548—Barnes Tool Co., 152 Brewery St., New Haven, Conn.
549—Barnhardt Mfg. Co., Charlotte, N. C.
550—Barnstead Still & Sterilizer Co., 40 Lanesville Terrace (Forest Hills), Boston, Mass.
551—Bartlett, Edwin E., 41 Crown St., Nashua, N. H.
553—Basca Mfg. Co., 1911 Martindale Ave., Indianapolis, Ind.
555—Bastian-Blessing Co., 240 E. Ontario St., Chicago, Ill.
556—Bastian Bros. Co., 1600 Clinton Ave., N., Rochester, N. Y.
558—Bates Wohlert Co., 700 E. Grand River Ave., Lansing, Mich.
559—Battery Equipment & Supply Co., 7524 Greenwood Ave., Chicago, Ill.
560—Battery Parts Co., 329 Penn Ave., Wilkinsburg, Pa.
561—Bauer & Black, 2500 S. Dearborn St., Chicago, Ill.
562—Baum's Castorine Co., N. Y. Central R. R., Rome, N. Y.
563—Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
564—Bay City Foundry & Machine Co., 1613 Water St., Bay City, Mich.
568—Bay State Stamping Co., 380 Chandler St., Worcester, Mass.
569—Bay State Tap & Die Co., 75 Chauncy St., Mansfield, Mass.
570—Beach Air Brush Co., Willard C., Second & Warren Sts., Harrison, N. J.
575—Beall Tool Co., East Alton, Ill.
576—Beals & Selkirk Trunk Co., Seventh & Chestnut Sts., Wyandotte, Mich.
577—Bean Mfg. Co., John, 18 Hosmer St., Lansing, Mich. Adv. p. 21.
578—Beardsley & Wolcott Mfg. Co., 1359 Thomaston Ave., Waterbury, Conn.
580—Bearings Industry Corp., 1834 Broadway, New York, N. Y. (Importers.)
581—Bear Mfg. Co., 22nd St. & Fifth Ave., Rock Island, Ill.
582—Beaver Mfg. Co., 625 N. Third St., Newark, N. J.
584—Beck-Frost Ohio Co., 1805 Clinton St., Toledo, Ohio.
586—Beckwith-Chandler Co., 201 Emmett St., Newark, N. J.
587—Beckwith Machine Co., 553 N. Chestnut St., Ravenna, Ohio.
588—Becton, Dickinson & Co., Rutherford, N. J.
589—Beebe Bros., 3223 First Ave., S., Seattle, Wash.
590—Behrens Mfg. Co., H., Third & Grand Sts., Winona, Minn.
591—Behr-Manning Corp., Troy, N. Y.
592—Belden Mfg. Co., 4647 W. Van Buren St., Chicago, Ill.
593—Bell Co., 1705 S. State St., Chicago, Ill.
595—Bellevue Mfg. Co., Ashford Ave., Bellevue, Ohio. Adv. p. 70.
597—Belmor Mfg. Co., 2300 Wabansia Ave., Chicago, Ill.
598—Belvidere Screw & Machine Co., 826 E. Madison St., Belvidere, Ill.
599—Bema Laboratories, 30 N. Union St., Rochester, N. Y.
600—Beman Automatic Oil Can Co., Meadville, Pa.
602—Bemis Bro. Bag Co., 601 S. Fourth St., St. Louis, Mo.
603—Bemis & Call Co., 125 Main St., Springfield, Mass.
606—Bender Body Co., W. 62nd St. & Denison Ave., Cleveland, Ohio.
608—Bendix Aviation Corp., 401 Bendix Drive, South Bend, Ind. Adv. Front Cover.
609—Bendix Brake Co., 401 Bendix Drive, South Bend, Ind. Adv. Front Cover.
610—Bendix-Cowdrey Brake Tester, Inc., South Bend, Ind. Adv. Front Cover.
611—Bendix-Stromberg Carburetor Co., Nancy & Westmoor Sts., South Bend, Ind. Adv. Front Cover.
612—Bendix-Westinghouse Automotive Air Brake Co., 5001 Centre Ave., Pittsburgh, Pa. Adv. Front Cover.
613—Beneke Mfg. Co., 21st & Rockwell Sts., Chicago, Ill.
614—Benjamin Electric Mfg. Co., Northwest Highway & Seegar Rd., Des Plaines, Ill.
616—Benton Co., L. F., 300 Main St., Vergennes, Vt.
617—Benzer Corp., Myrtle & Cooper Aves., Brooklyn, N. Y.
618—Benz Spring Co., 89 N. Ninth St., Portland, Ore.
620—Berg Bros. Mfg. Co., 4520 W. North Ave., Chicago, Ill.
621—Berg Co., F. O., 318 Division St., Spokane, Wash.
622—Berger Mfg. Co., 1038 Belden Ave., N. E., Canton, Ohio.
623—Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo, N. Y.
623a—Berkley Mfg. Co., 16 W. 60th St., New York, N. Y.
624—Berling Magneto Co., 42 Laird Ave., Buffalo, N. Y.
626—Bernz Co., Otto, 17 Ashland St., Newark, N. J.
627—Berry Bros., 211 Lieb St., Detroit, Mich.
629—Bethlehem Fabricators, Inc., W. Lehigh Ave., Bethlehem, Pa.
630—Bethlehem Steel Co., Bethlehem, Pa.
632—Betts Spring Co., 888 Folsom St., San Francisco, Calif.
632a—Betz Motor Truck Co., 493 Lyman Ave., Hammond, Ind.
633—Blax Flexible Shaft Co., 22-14 40th Ave., Long Island City, N. Y.
634—Bickett Rubber Products Corp., 600 First St., Watertown, Wis.
635—Bicknell Mfg. & Supply Co., 22 N. Academy St., Janesville, Wis.
636—Biddle, James G., 1211 Arch St., Philadelphia, Pa. (Importers.)
636a—Biederman Motors Co., 2100 Spring Grove Ave., Cincinnati, Ohio.
638—Bienenfeld Glass Works, Inc., 1539 Covert St., Brooklyn, N. Y.
639—Biflex Products Co., 2660 E. Grand Blvd., Detroit, Mich.
640—Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio.
641—Bigler Mfg. Co., 501 High St., Chippewa Falls, Wis.
642—Billings-Chapin Co., 1163 E. 40th St., Cleveland, Ohio.
643—Billings & Spencer Co., 1 Laurel St., Hartford, Conn.
644—Biltmore Mfg. Co., 1747 Central Ave., Cincinnati, Ohio. Adv. p. 47.
645—Binghamton Flexible Shaft Co., 239 Water St., Binghamton, N. Y.
646—Binks Mfg. Co., 3114 Carroll Ave., Chicago, Ill.
647—Binswanger & Co., B., 835 N. Third St., Philadelphia, Pa.
649—Birch Mfg. Co., 1523 Sedgwick St., Chicago, Ill.
650—Birmingham Tank Co., Birmingham, Ala.
651—Bishop Mfg. Co., Robert, 157 W. Sixth St. (So. Boston), Boston, Mass.
652—Bishop Products Co., 7512 Carnegie Ave., Cleveland, Ohio.
653—Bishop Wire & Cable Corp., 420 E. 25th St., New York, N. Y.
655—Black & Decker Mfg. Co., Towson, Md.
656—Blackhawk Mfg. Co., Dept. C, 148 Broadway, Milwaukee, Wis. Adv. p. 163.
658—Blackmer Pump Co., 1809 Century Ave., Grand Rapids, Mich.
661—Blake Signal & Mfg. Co., 221 High St., Boston, Mass.
662—Blaw-Knox Co., Blawnox, Pa.
663—Blettner Co., Geo. H., 1841 W. Jackson Blvd., Chicago, Ill.
664—Bliss Co., E. W., 53rd St. & Second Ave., Brooklyn, N. Y.
665—Blitz Electric Co., 4344 Wentworth Ave., Chicago, Ill.
666—Bloch, Joseph, 51 Cliff St., New York, N. Y. (Importers.)
667—Bloch & Sons, Albert, 36 Walker St., New York, N. Y.
668—Blocksom & Co., Fifth & Canal Sts., Michigan City, Ind.
669—Blood-Bros. Machine Co., Allegan, Mich.
670—Blount Co., J. G., Woodland St., Everett, Mass.
671—Blue Co., W. F., 3540 N. Meridian St., Indianapolis, Ind.
672—Blue Point Tool Co., 14 E. Jackson Blvd., Chicago, Ill. (Sole distributors, Motor Tool Specialty Co., 14 E. Jackson Blvd., Chicago, Ill.)
676—Blunderbus Cleaner Equipment Corp., 230 Park Ave., New York, N. Y.
677—Boardman Co., Maple & Hawk Sts., Oklahoma City, Okla.
678—Bock Machine Co., 3618 Colerain Ave., Cincinnati, Ohio.
679—Bodin Mfg. Co., Hanover Ave. & Dauphin St., Allentown, Pa.
681—Bog Mfg. Co., 2116 N. Menard Ave., Chicago, Ill.
682—Bohn Aluminum & Brass Corp., 2512 E. Grand Blvd., Detroit, Mich.
682a—Boker & Co., H., 101 Duane St., New York, N. Y.
684—Bond Electric Corp., 256 Cornelison Ave., Jersey City, N. J.
685—Bond Foundry & Machine Co., Manheim, Pa.
686—Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
689—Bosch Magneto Corp., American, 3664 Main St., Springfield, Mass. Adv. pp. 92 & 93.
690—Bosch Magneto Co., Robert, 3601 D Queens Blvd., Long Island City, N. Y. Adv. p. 91.
691—Boss Bolt & Nut Co., 3403 W. 47th St., Chicago, Ill.
692—Boston Leather Specialties, Inc., 210 Broadway, Everett, Mass.
693—Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass.
694—Boullee Fraser Tanning Co., 52 Woolsey St., Irvington, N. J.
696—Bowen Products Corp., Auburn, N. Y.
697—Bower Roller Bearing Co., Hart & Goethe Aves., Detroit, Mich.
698—Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis, Ind.
699—Bownes Co., Frank, 59 Monroe St., Lynn, Mass.
700—Bowser & Co., S. F., 1314 E. Creighton Ave., Ft. Wayne, Ind.
701—Box Iron Works Co., Wm. A., 33rd & Blake Sts., Denver, Col.
701a—Boye & Emmes Machine Tool Co., Cincinnati, Ohio.
702—Boyer Chemical Laboratories, 2700 S. Wabash Ave., Chicago, Ill.
703—Boyer Fire Apparatus Co., Wheatland Ave., Logansport, Ind.
704—Boyle & Co., John, 112 Duane St., New York, N. Y.
704a—Boyle Mfg. Co., 5100 Santa Fe Ave., Los Angeles, Calif.
705—Boyle Valve Co., 5829 S. Ada St., Chicago, Ill.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

706—Braden Steel & Winch Co., 3 N. Madison St., Tulsa, Okla.
707—Bradfield Motors, Inc., Otis Bldg., Chicago, Ill.
708—Bradley Motor Products Co., Union & Sycamore Sts., Fostoria, Ohio.
709—Bradney Machine Co., 70 Monhagen Ave., Middletown, N. Y.
710—Bragg-Kliesrath Corp., Queens Blvd. & Harold Ave., Long Island City, N. Y. Adv. Inside Back Cover & Front Cover.
712—Brake Synchrometer Co., 87 Lincoln St., Boston, Mass.
713—Brake Testing Equipment Corp., 1355 Van Ness Ave., San Francisco, Calif.
714—Brandt-Warner Mfg. Co., Broad & Philadelphia Sts., York, Pa.
717—Brawley Felt Co., T. R., 272 20th St., Brooklyn, N. Y.
718—Breeze Corporations, 24 S. Sixth St., Newark, N. J.
719—Breuer Electric Mfg. Co., 852 Blackhawk St., Chicago, Ill.
720—Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. Adv. p. 155.
723—Bridgeport Brass Co., 774 E. Main St., Bridgeport, Conn.
724—Bridgeport Chain & Mfg. Co., 1200 Crescent Ave., Bridgeport, Conn.
725—Bridgeport Coach Lace Co., 812 Wood Ave., Bridgeport, Conn.
726—Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn.
726a—Briggs Mfg. Co., 11631 Mack Ave., Detroit, Mich.
727—Briggs & Stratton Corp., 1047 13th St., Milwaukee, Wis.
728—Brightman Mfg. Co., Marion Rd., Columbus, Ohio.
729—Bright Star Battery Co., 15th St. & River Head, Hoboken, N. J.
730—Brilliant Mfg. Co., 1035 Ridge Ave., Philadelphia, Pa.
731—Brockway Motor Truck Corp., 106 Central Ave., Cortland, N. Y.
733—Brodie Co., R. N., 61st & Lowell Sts., Oakland, Calif.
734—Brookins Mfg. Co., 770 Hawthorne St., Dayton, Ohio. Adv. p. 156.
736—Brooklyn Metal Stamping Corp., 718 Atlantic Ave., Brooklyn, N. Y.
737—Brooks & Co., Clarence, 249 Chestnut St., Newark, N. J.
738—Brooks Machine Co., 225 W. Lewis St., Wichita, Kan.
739—Brooks & Sons, M. S., Chester, Conn.
740—Brooks Tent & Awning Co., 1655 Arapahoe St., Denver, Col.
746—Brown & Green Ignition Sales Co., 245 W. 55th St., New York, N. Y.
747—Brown-Lipe-Chapin Co., Syracuse, N. Y. Adv. p. 103.
748—Brown-Lipe Gear Co., 1117 W. Fayette St., Syracuse, N. Y.
749—Brown-McLaren Mfg. Co., 5853 W. Fort St., Detroit, Mich.
750—Brown Mfg. Co., John W., Marion Rd., Columbus, Ohio.
751—Brown Rubber Co., E. Union St., Lafayette, Ind.
752—Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I. Adv. p. 162.
753—Brown Sheet Iron & Steel Co., 964 Berry Ave., St. Paul, Minn.
756—Brubaker & Bros. Co., W. L., Millersburg, Pa.
757—Bruce Products Corp., 5073 Grand River Ave., Detroit, Mich.
759—Brunner Mfg. Co., 1800 Broad St., Utica, N. Y. Adv. p. 143.
763—Buckeye Belting & Supply Co., 1251 W. Third St., Cleveland, Ohio.
764—Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland, Ohio.
765—Buckeye Jack Mfg. Co., Gaskill Rd., Alliance, Ohio.
766—Buckeye Reliner Producing Co., 653 N. Jackson St., Lima, Ohio.
767—Buckeye Twist Drill Co., W. Ely St., Alliance, Ohio.
768—Buckner Process Co., 86A Pleasant St., Worcester, Mass.
769—Buda Co., 154th St. & Commercial Ave., Harvey, Ill.
769a—Budd Mfg. Co., Edw. G., Hunting Park Ave. & 25th St., Philadelphia, Pa.
770—Budd Wheel Co., 12141 E. Charlevoix Ave., Detroit, Mich.
772—Buell Mfg. Co., 2985 Cottage Grove Ave., Chicago, Ill. Adv. p. 56.
774—Buffalo Bolt Co., North Tonawanda, N. Y.
775—Buffalo Bronze Die Cast Corp., 100 Arthur St., Buffalo, N. Y.
777—Buffalo Fire Appliance Corp., 44 Central Ave., Buffalo, N. Y.
778—Buffalo Forge Co., 490 Broadway, Buffalo, N. Y.
779—Buffalo Gasoline Motor Co., 1280 Niagara St., Buffalo, N. Y.
780—Buffalo Meter Co., 2891 Main St., Buffalo, N. Y.
781—Buffalo Weaving & Belting Co., 215 Chandler St., Buffalo, N. Y.
782—Buffalo Wire Works Co., 431 Terrace, Buffalo, N. Y.
785—Buick Motor Co., Flint, Mich. Adv. p. 32.
786—Buko Oiler Mfg. Co., Clarkson, Neb.
788—Bull Grip, Inc., Chattanooga, Tenn.
789—Bumpers, Inc., 340 W. 70th St., New York, N. Y. Adv. p. 89.
790—Bunting Brass & Bronze Co., 715 Spencer St., Toledo, Ohio.
792—Burdett Oxygen Co. of Cleveland, 3300 Lakeside Ave., Cleveland, Ohio.
794—Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. Adv. p. 116.
798—Burgess Battery Co., 111 W. Monroe St., Chicago, Ill.
799—Burgess-Dall Corp., 517 Peyton St., Geneva, Ill. (Sole distributors.) Adv. p. 203.
800—Burgess-Norton Mfg. Co., 517 Peyton St., Geneva, Ill. (Sole distributors, Burgess-Dall Corp., 517 Peyton St., Geneva, Ill.)
801—Burkhart Mfg. Co., F., 4900 N. Second St., St. Louis, Mo.
802—Burke Electric Co., 12th & Cranberry Sts., Erie, Pa.
803—Burke Machine Tool Co., 792 E. 12th St., Conneaut, Ohio.
806—Burlington Brass Works, Burlington, Wis.
808—Burrell Belting Co., 413 S. Hermitage Ave., Chicago, Ill.
809—Burr & Sons, John T., 429 Kent Ave., Brooklyn, N. Y.
810—Burton Auto Spring Corp., 2433 W. 48th St., Chicago, Ill. Adv. p. 131.
811—Burton-Boston Brush Co., 122 Harvard St., Cambridge, Mass.
812—Burton & Rogers Mfg. Co., 197 Grove St., Bloomfield, N. J.
814—Bushey Co., J. S., 717 W. 11th St., Los Angeles, Calif.
816—Bussmann Mfg. Co., University St. at Jefferson Ave., St. Louis, Mo. Adv. p. 51.
817—Butler Mfg. Co., 7400 E. 13th St., Kansas City, Mo.
818—Butler Mfg. Co., 1810 E. 24th St., Cleveland, Ohio.
819—Butterfield & Co. (Div. of Union Twist Drill Co.), Derby Line, Vt.
820—Buxbaum Co., 120 Elinor Ave., Akron, Ohio.

C

1000a—C & C Sales Corp., General Motors Bldg., Broadway at 57th St., New York, N. Y. (Importers.) Adv. p. 84.
1001—C & G Wheel Puller Co., Brooklyn Ave., Wellsville, N. Y. (Sole distributors, Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.)
1001a—C & H Mfg. Co., New Brunswick, N. J. Adv. p. 54.
1002—C. H. C. Mfg. Co., 103 13th St., Portland, Ore.
1003—C & L Tire & Rubber Co., Foothill Blvd. & 105th Ave., Oakland, Calif.
1005—C-R Spark Plug Co., 555 Marietta St., Atlanta, Ga.
1006—C. & W. Tool Co., 23 High St., Sharon, Mass.
1006a—Cabot, Inc., Samuel, Polygon Products Div., 141 Milk St., Boston, Mass. (Sole distributors, Wilber & Williams Co., 31 St. James Ave., Boston, Mass.)
1007—Cactus Mfg. Co., 2700 San Fernando Rd., Los Angeles, Calif.
1008—Cadillac Motor Car Co., 2860 Clark Ave., Detroit, Mich.
1009—Caldbeck Tool & Mfg. Co., 307 E. Third St., Des Moines, Iowa.
1012—California Motor Coach Co., 1346 Folsom St., San Francisco, Calif.
1014—California Steel Wheel Co. of Illinois, 3053 N. California Ave., Chicago, Ill. (Sole distributors, Fager 6-Wheel Attachment Co. of California, 3053 N. California Ave., Chicago, Ill.)
1015—California Steel Wheel Corp., 8901 Railroad Ave., Oakland, Calif.
1016—Cambria Spring Co., 915 Santee St., Los Angeles, Calif.
1017—Cameron Electrical Mfg. Co., 205 Main St., Ansonia, Conn.
1019—Campbell Auto Works, 238 N. El Dorado St., Stockton, Calif.
1020—Campbell & Dann Mfg. Co., Tullahoma, Tenn.
1022—Campbell Paint & Varnish Co., 106 Gratiot St., St. Louis, Mo.
1023—Canedy-Otto Mfg. Co., Main & East End Ave., Chicago, Ill.
1025—Canton Foundry & Machine Co., Dime Savings Bank Bldg., Canton, Ohio.
1027—Capen Belting & Rubber Co., 1920 Washington Ave., St. Louis, Mo.
1028—Carbex Chemical Co., West End, N. J.
1030—Carbo-Oxygen Co., Benedum-Trees Bldg., Pittsburgh, Pa.
1031—Carborundum Co., Buffalo Ave., near Portage Rd., Niagara Falls, N. Y.
1032—Cardinal Mfg. Co., 2005 Home Ave., Dayton, Ohio.
1033—Card Mfg. Co., S. W., Div. of Union Twist Drill Co., Rumford Ave., Mansfield, Mass.
1034—Carlisle & Finch Co., 229 E. Clinton Ave., Cincinnati, Ohio.
1035—Carlisle Mfg. Co., 243 W. 17th St., New York, N. Y.
1037—Carll's Sons, Chas. W., Cole & Linwood Sts., Trenton, N. J.
1039—Carolina Rubber Co., Salisbury, N. C.
1040—Caro Products Co., Jean, Freeport, Ill.
1041—Carpenter & Co., L. E., 444 Frelinghuysen Ave., Newark, N. J.
1044—Carr Chain Works, Troy, N. Y.
1045—Carr Co., F. S., 31 Beach St., Boston, Mass.
1046—Carroll-Jamieson Machine Tool Co., Davis Rd., Batavia, Ohio.
1047—Carter Carburetor Corp., 2838 N. Spring Ave., St. Louis, Mo.
1048—Carter Co., George R., 630 Lycaste Ave., Detroit, Mich.
1049—Carter Mfg. Co., 1132 Kansas St., Memphis, Tenn.
1050—Carter Products Corp., 983 Front Ave., Cleveland, Ohio.
1051—Carty Electric & Armature Service, Inc., 1608 14th St., Washington, D. C.
1052—Car-Van Steel Products Co., 1210 Fifth St., S. W., Canton, Ohio.
1053—Casco Products Corp., 1333 Railroad Ave., Bridgeport, Conn. Adv. p. 43.
1055—Cataract Auto Washer Co., 1269 Western Ave., Topeka, Kan.
1058—Cedar Rapids Engineering Co., 901 N. 17th St., Cedar Rapids, Iowa. Adv. p. 152.
1060—Celluloid Corp., 10 E. 40th St., New York, N. Y.
1063—Central Auto Ignition Co., 2230 S. Wood St., Chicago, Ill.
1064a—Central Iron & Steel Products Co., 440 Atlantic St., N. W., Warren, Ohio.
1066—Central Mfg. Co., 69 Clinton St., Newark, N. J.
1067—Central Stamping Co., 591 Ferry St., Newark, N. J.
1069—Central Steel & Wire Co., 4545 S. Western Blvd., Chicago, Ill.
1070—Century Hoist Mfg. Co., Canal & Myrtle Sts., Lock Haven, Pa.
1073—Century Motor Truck Co., Seneca St., Defiance, Ohio.
1075—Certain-Teed Products Corp., 100 E. 42nd St., New York, N. Y.
1076—Chadwick & Trefethen, 326 W. Madison St., Chicago, Ill.
1077—Chain Products Co., Cooper Ave. & Penna. R. R., Cleveland, Ohio. Adv. p. 41.
1079—Chalmers Chemical Co., 123 Chestnut St., Newark, N. J.
1081—Champion Auto Spring Co., 3141 Pine Blvd., St. Louis, Mo.
1082—Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster Pa.
1083—Champion Brass Works, Kendallville, Ind.
1084—Champion DeArment Tool Co., S. Main St., Meadville, Pa.
1086—Champion Pneumatic Machinery Co., 8170 S. Chicago Ave., Chicago, Ill. Adv. p. 142.
1087—Champion Sheet Metal Co., 1 Squires St., Cortland, N. Y.
1088—Champion Spark Plug Co., Upton Ave., Toledo, Ohio. Adv. Back Cover.
1089—Champ Spring Co., 2109 Chouteau Ave., St. Louis, Mo.
1090—Chance Co., Allen & Wilson Sts., Centralia, Mo.
1091a—Chaney Mfg. Co., Springfield, Ohio.
1092—Chapin Co., Chas. E., 227 Fulton St., New York, N. Y. (Sole distributors, Automotive Specialty Corp., 382 Jefferson St., Brooklyn, N. Y.)
1095—Chase Brass & Copper Co., 236 Grand St., Waterbury, Conn.
1097—Chase Mfg. Co., 3216 Morgan St., St. Louis, Mo.
1099—Chaslyn Co., 4605 Ravenswood Ave., Chicago, Ill.
1101—Chatillon & Sons, John, 85 Cliff St., New York, N. Y.
1104—Chattanooga Wheelbarrow Co., 1311 E. Main St., Chattanooga, Tenn.
1105—Checker Cab Mfg. Co., Kalamazoo, Mich.
1106—Chenango Equipment Mfg. Co., 37 Hale St., Norwich, N. Y.
1107—Cheney & Son, S., Manlius, N. Y.
1108—Chesterton Co., A. W., 64 India St., Boston, Mass.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

1109—Chevolair Motors, Inc., 410 W. Tenth St., Indianapolis, Ind.
1110—Chevrolet Motor Co., General Motors Bldg., Detroit, Mich.
1111—Chicago Belting Co., 113 N. Green St., Chicago, Ill.
1112—Chicago Boiler Co., 1965 Clybourn Ave., Chicago, Ill.
1113—Chicago Coil Spring Co., 3101 Carroll Ave., Chicago, Ill. Adv. p. 130.
1115—Chicago Eye Shield Co., 2300 Warren Ave., Chicago, Ill.
1117—Chicago Lock Co., 2024 W. Racine Ave., Chicago, Ill.
1118—Chicago Mfg. Co., 411 N.Trumbull Ave., Chicago, Ill.
1119—Chicago Mica Co., Div. of Continental-Diamond Fibre Co., Lincoln & Campbell Sts., Valparaiso, Ind.
1121—Chicago Moulded Products Corp., 2149 Walnut St., Chicago, Ill.
1123—Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
1124—Chicago Rawhide Mfg. Co., 1281 Elston Ave., Chicago, Ill.
1125—Chicago Rhopac Products Co., 925 Wrightwood Ave., Chicago, Ill.
1126—Chicago Rivet & Machine Co., 1830 S. 54th Ave. (Cicero P. O.), Chicago, Ill. Adv. p. 121.
1128—Chicago Screw Co., 1026 S. Homan Ave., Chicago, Ill.
1129—Chicago Steel Tank Co., 6400 W. 66th St., Chicago, Ill.
1130—Chicago Steel & Wire Co., Fusion Welding Div., 103rd St. & Torrence Ave., Chicago, Ill.
1132—Chicago Tool & Kit Mfg. Co., 429 W. Superior St., Chicago, Ill.
1133—Chicago Tubing & Braiding Co., 216-24 N. Clinton St., Chicago, Ill. Adv. p. 133.
1134—Chisholm-Moore Hoist Corp., Div. Columbus-McKinnon Chain Corp., Tonawanda, N. Y.
1135—Christen Mfg. Co., V. H., 319 Orleans St., Detroit, Mich.
1137—Christie-Couse Corp., Taos, N. Mex. Adv. p. 150.
1138—Chrysler Sales Corp., 12200 E. Jefferson Ave., Detroit, Mich. Adv. p. 32.
1139—Cinch Mfg. Corp., 2335 W. Van Buren St., Chicago, Ill.
1141—Cincinnati Ball Crank Co., Cincinnati, Ohio.
1142—Cincinnati Car Corp., Winton Pl., Cincinnati, Ohio.
1143—Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati, Ohio.
1144—Cincinnati Grinders, Inc., South St. (Oakley), Cincinnati, Ohio.
1145—Cincinnati Lathe & Tool Co., 3207 Disney St. (Oakley), Cincinnati, Ohio.
1146—Cincinnati Rubber Mfg. Co., Franklin Ave., Cincinnati, Ohio.
1148—Cincinnati Tool Co., 1053 Waverly Ave., Cincinnati, Ohio.
1150—Cincinnati-Victor Co., 712 Reading Rd., Cincinnati, Ohio.
1151—Cities Service Oil Co. of Ohio, E. 46th & Prospect Sts., Cleveland, Ohio.
1152—City Auto Spring Works, Park Ave. & Preston St., Baltimore, Md.
1154—City Machine & Tool Works, E. Third & June Sts., Dayton, Ohio.
1156—Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich.
1157—Clare Mfg. Co., Clare, Mich.
1158—Clark Bros. Bolt Co., Milldale, Conn.
1159—Clark-Cutler-McDermott Co., Fisher & Winter Sts., Franklin, Mass.
1160—Clark-Feather Mfg. Co., Fort Morgan, Col.
1161—Clark, Jr., Electric Co., James, 600 Bergman St., Louisville, Ky.
1162—Clark Mfg. Co., J. L., 519 High St., Oshkosh, Wis.
1163—Clarkspeed Truck Co., Pontiac, Mich.
1164—Clark Tructractor Co., Battle Creek, Mich.
1165—Clawson & Bals, Inc., 4701 W. Lake St., Chicago, Ill. Adv. p. 125.
1166—Claypool Machine Co., Claypool, Ind.
1168—Clayton & Lambert Mfg. Co., 11111 French Rd., Detroit, Mich.
1169—Clear Vision Pump Co., 822 E. Harry St., Wichita, Kan.
1170—Clements Mfg. Co., 601 Fulton St., Chicago, Ill.
1172—Cleveland Canvas Goods Mfg. Co., 14th St. & Central Ave., Cleveland, Ohio.
1173—Cleveland Cap Screw Co., 3004 E. 79th St., Cleveland, Ohio. Adv. p. 122.
1174—Cleveland Chain & Mfg. Co., Penn R. R. & Henry Rd., Cleveland, Ohio. Adv. p. 38.
1177—Cleveland Metal Hose Co., 3708 E. 93rd St., Cleveland, Ohio.
1178—Cleveland National Machine Co., 1366 W. 70th St., Cleveland, Ohio.
1179—Cleveland Pneumatic Tool Co., 3734 E. 78th St., Cleveland, Ohio.
1180—Cleveland Shock Absorber Co., 3110 Payne Ave., Cleveland, Ohio.
1181—Cleveland Steel Products Corp., 7300 Madison Ave., Cleveland, Ohio.
1182—Cleveland Storage Battery Co., 1724 St. Clair Ave., Cleveland, Ohio.
1183—Cleveland Tanning Co., Dennison Ave. & Jennings Rd., Cleveland, Ohio.
1184—Cleveland Top & Specialty Co., 1929 E. 55th St., Cleveland, Ohio.
1185—Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. Adv. p. 158.
1186—Cleveland Varnish Co., 3111 E. 87th St., Cleveland, Ohio.
1187—Cleveland Welding Co., W. 117th St. & Berea Rd., Cleveland, Ohio.
1188—Cleveland Worm & Gear Co., 3261 E. 80th St., Cleveland, Ohio. Adv. p. 104.
1190—Clifford Mfg. Co., 564 E. First St., Boston, Mass. (Sole distributors, A. G. Redmond Co., 1109 Stewart Ave., Flint, Mich.)
1192—Clifton Mfg. Co., 323 Pleasant St., Waco, Texas.
1194—Clinton Motors Corp., Reading, Pa.
1195—Clipper Belt Lacer Co., 974 Front Ave., N. W., Grand Rapids, Mich.
1196—Clippinger & Sons Mfg. Co., A. B., 1100 S. Mill St., Kansas City, Kan.
1197—Clizbe Bros. Mfg. Co., 105 Place St., Plymouth, Ind.
1198—Clover Mfg. Co., 410 Main St., Norwalk, Conn. Adv. p. 172.
1199—Cloyes Gear Works, 17214 Roseland Rd., N. E., Cleveland, Ohio.
1200—Cluff Cover Co., 549 W. 52nd St., New York, N. Y.
1201—Clum Mfg. Co., 425 National Ave., Milwaukee, Wis.
1202—Clydesdale Co., Amanda St., Clyde, Ohio.
1203—Clymer Div. National Lock Co., 1902 Seventh St., Rockford, Ill.
1205—Coast Tire & Rubber Co., 50th Ave. & 12th St., Oakland, Calif.
1207—Codman & Shurtleff, 171 Massachusetts Ave., Boston, Mass.
1211—Cohutta Talc Co., Dalton, Ga.
1212—Coil Mfg. Co., 902 Maxwell Ave., Evansville, Ind.
1213—Cold Steam Corp., Charlottesville, Va. (Sole distributors, Fuelo Engineering Corp., Room 1932, 342 Madison Ave., New York, N. Y.) Adv. p. 4.
1214—Cole Co., Henry, 54 Old Colony Ave., Boston (27), Mass. (Sole distributors, Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.)
1216—Coleman Motors Corp., Littleton, Col.
1219—Coliseum Battery & Equipment Co., 1616 S. Wabash Ave., Chicago, Ill.
1222—Colonial Battery Co., 125 E. 21st St., Chicago, Ill.
1224—Colorado Gear Mfg. Co., 1361 S. Broadway, Denver, Col.
1225—Colorado Tent & Awning Co., 1636 Lawrence St., Denver, Col.
1226—Colpin Corp., 6110 S. Main St., Los Angeles, Calif.
1227—Colt's Patent Fire Arms Mfg. Co., 17 Van Dyke Ave., Hartford, Conn.
1229—Columbia Engineering Co., 120 N. Main St., Columbia City, Ind.
1230—Columbia Mills, 2620 Lacy St., Los Angeles, Calif.
1232—Columbian Vise & Mfg. Co., 9021 Bessemer Ave., Cleveland, Ohio. Adv. p. 167.
1233—Columbus Auto Brass Co., 767 W. Fourth St., Columbus, Ohio.
1234—Columbus Bolt Works Co., 174 W. Chestnut St., Columbus, Ohio.
1235—Columbus Coated Fabrics Corp., Seventh & Grant Aves., Columbus, Ohio.
1237—Columbus-McKinnon Chain Corp., Tonawanda, N. Y. Adv. p. 152.
1240—Combination Rubber Mfg. Co., Mead St. & St. Joe's Ave., Trenton, N. J.
1242—Comet Electric Co., 1237 St. Paul St., Indianapolis, Ind.
1243—Comfort Printing Specialty Co., 107 N. Eighth St., St. Louis, Mo. Adv. p. 134.
1244—Commercial Acetylene Supply Co., 71 Broadway, New York, N. Y.
1245—Commercial Chemical Co., 212 Essex St., Boston, Mass.
1247—Commercial Mfg. Co., 817 Rees St., Chicago, Ill.
1249—Commonwealth Brass Corp., 5781 Commonwealth Ave., Detroit, Mich.
1250—Commonwealth Felt Co., 74 Summer St., Boston 9, Mass.
1253—Compton-Murrow Co., Citizens National Bank Bldg., Independence, Kan.
1253a—Conant & Donelson Co., Conway, Mass.
1254—Conkey & Co., H. D., Mendota, Ill.
1255—Conneaut Packing Co., 353 Broad St., Conneaut, Ohio.
1257—Connecticut Telephone & Electric Corp., Tiffany Div., 37 Britannia St., Meriden, Conn. Adv. p. 251.
1259—Conrad, Earl W., Warsaw, Ind.
1260—Consolidated Battery Co., 111 Colgate St., Buffalo, N. Y.
1261—Consolidated Brass Co., Summit Ave. & Wabash Ry., Detroit, Mich.
1262—Consolidated Car Heating Co., 413 N. Pearl St., Albany, N. Y.
1263—Consolidated Packing & Supply Co., 21 Barclay St., New York, N. Y.
1265—Consumers Paper Co., 6301 E. Lafayette Ave., Detroit, Mich. Adv. p. 132.
1266—Contact Metals Co., 2502 S. Wabash Ave., Chicago, Ill.
1268—Continental Corp., 1601 S. Michigan Ave., Chicago, Ill.
1269—Continental Cushion Spring Co., 4925 S. Halsted St., Chicago, Ill.
1270—Continental-Diamond Fibre Co., Newark, Del. Adv. p. 8.
1271—Continental Felt Co., 890 Broadway, New York, N. Y.
1272—Continental Motors Corp., 12801 Jefferson Ave., E., Detroit, Mich. Adv. p. 25.
1273—Continental Piston Ring Co., 276 Walnut St., Memphis, Tenn. Adv. p. 115.
1274—Continental Rubber Works, 1902 Liberty St., Erie, Pa. Adv. p. 134.
1276—Continental Tire Corp., Dept. C, 1805 Michigan Ave., Chicago, Ill. Adv. p. 78.
1282—Coons Mfg. Co., Abingdon, Ill.
1283—Cooper-Bessemer Corp., Mt. Vernon, Ohio.
1286—Cooper Corp., Findlay, Ohio.
1287—Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
1289—Copperweld Steel Co., 9th St., Glassport, Pa.
1290—Coranto, Incorporated, Old Forge, N. Y.
1291—Corbin Cabinet Lock Co., Div. American Hardware Corp., Park & Orchard Sts., New Britain, Conn.
1292—Corbin Screw Corp., 227 High St., New Britain, Conn.
1293—Corbitt Co., Henderson, N. C.
1294—Corcoran Mfg. Co., Dept. 29, Section & Foraker Aves. (Norwood), Cincinnati, Ohio. Adv. p. 126.
1295—Corduroy Tire Co., Grand Rapids, Mich.
1296—Cornell Iron Works, 3620 13th St., Long Island City, N. Y.
1297—Corning Glass Works, Corning, N. Y.
1299—Cornwell Quality Tools Co., Mogadore, Ohio.
1300—Correct Measure Co., Railroad St., Rochester, Pa.
1303—Cosco Paint & Varnish Corp., 25 N. Portland Ave., Brooklyn, N. Y.
1304—Cotex Corp., 331 Oliver St., Newark, N. J.
1305—Cotta Transmission Corp., 2340 11th St., Rockford, Ill.
1307—Council Engineering Co., 1723 Third Ave., Moline, Ill. Adv. p. 153.
1308—Covell-Hanchett Co., Wilmarth & Morman Div., Big Rapids, Mich.
1309—Cowles & Co., C., Water & Chestnut Sts., New Haven, Conn.
1310—Cox Products Corp., 2675 Pittsburgh Ave., Cleveland, Ohio.
1311—Cramer & Co., R. W., 136 Liberty St., New York, N. Y.
1314—Crane Packing Co., 1800 Cuyler Ave., Chicago, Ill.
1316—Craveroiler Co. of America, 4523 Tacony St., Frankford, Philadelphia, Pa.
1318—Crawford Mfg. Co., Seventh & Wyandotte Sts., Kansas City, Mo.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

1319—Crawford Mfg. Co., Second & Decatur Sts., Richmond, Va.
1321—Crescent Automotive Cable Co. (Crescent Braid, Inc.), 116 Elm St., Providence, R. I. Adv. p. 90.
1322—Crescent Battery & Light Co., 916 Magazine St., New Orleans, La.
1323—Crescent Metal Works, Inc., 313 Chestnut St., Newark, N. J.
1324—Crescent Tool Co., 217 Harrison St., Jamestown, N. Y.
1326—Crittenden Mfg. Co., 33 Moreland St. (West Roxbury), Boston, Mass.
1327—Crone, F. G., 281 Ferry St., Buffalo, N. Y.
1328—Cross Engineering Co., 170 Dundoff St., Carbondale, Pa.
1330—Crown Motor Carriage Co., 2500 McPherson St., Los Angeles, Calif.
1331—Crown Spray Gun Mfg. Co., 1218 Venice Blvd., Los Angeles, Calif.
1333—Crump Co., Benj. T., 1314 E. Franklin St., Richmond, Va.
1334—Cuban-American Sponge Co., 317 Gravier St., New Orleans, La.
1337—Culver-Stearns Mfg. Co., 53 Grafton St., Worcester, Mass.
1339—Cunningham Products Corp., 155 Lafayette St., New York, N. Y.
1340—Cunningham Sons & Co., James, 13 Canal St., Rochester, N. Y.
1341—Cuno Engineering Corp., 80 S. Vine St., Meriden, Conn.
1342—Cupples Co., 401 S. Seventh St., St. Louis, Mo.
1343—Curtman Mfg. Co., F. L., 626 W. Second St., Maryville, Mo.
1344—Curry Co., J. W., 2615 Cummins St., Cincinnati, Ohio.
1345—Curtis Pneumatic Machinery Co., 1927 Kienlen Ave., St. Louis, Mo. Adv. p. 141.
1346—Cutting Co., Robert M., 401 N. Ogden Ave., Chicago, Ill.
1347—Cuyahoga Specialty Co. (Div. of Cuyahoga Spring Co.), 10252 Berea Rd., Cleveland, Ohio.

D

1500—D. & R. Auto Products Co., 23 Ninth Ave., Long Island City, N. Y.
1503—Dall Motor Parts Co., Henry Ave. & P. R. R., Cleveland, Ohio. (Sole distributors of pistons, Burgess-Dall Corp., 517 Peyton St., Geneva, Ill. Adv. p. 203.
1504—Dalton & Balch, Inc., 2333 Michigan Blvd., Chicago, Ill.
1505—Dalton Foundries, Inc., Warsaw, Ind.
1508—Damon Mfg. Co., 325 W. Ohio St., Chicago, Ill.
1510—Dangerlite Corp. of America, 300 Sugar Bldg., Denver, Col.
1513—Darcoid Co., 55 Warren St., New York, N. Y.
1514—D'Arcy Spring Co., N. Pitcher St., Kalamazoo, Mich.
1517—Davenport Body Co., 1507 Rockingham Rd., Davenport, Iowa.
1518—Davis Brake Co., 2034 Fairmount Ave., Philadelphia, Pa.
1520—Davis, Kraus & Miller, 442 Jefferson Ave., E., Detroit, Mich.
1522—Davis & Son, 309 W. Third St., Winona, Minn.
1523—Davis Welding & Mfg. Co., 1110 Richmond St., Cincinnati, Ohio.
1524—Day & Co., James B., 1872 Clybourn Ave., Chicago, Ill.
1525—Day Mfg. Co., S. A., 1483 Niagara St., Buffalo, N. Y.
1526—Day-Nite, Inc., National Exchange Bank Bldg., Waukesha, Wis.
1527—Dayton Air Compressor Co., 426 Valley St., Dayton, Ohio.
1528—Dayton Appliance Co., E. Monument Ave., Dayton, Ohio.
1530—Dayton Bronze Bearing Co., 303 Keowee St., Dayton, Ohio.
1532—Dayton Paper Novelty Co., 1126 E. Third St., Dayton, Ohio.
1533—Dayton Pump & Mfg. Co., 500 Webster St., Dayton, Ohio.
1534—Dayton Rubber Mfg. Co., West Riverview Ave., Dayton, Ohio.
1535—Dayton Steel Foundry Co., Cor. Miami Chapel Rd. & B. & O. R. R., Dayton, Ohio.
1536—Dearborn Glass Co., 2500 W. 21st St., Chicago, Ill.
1537—Decker Co., Richard M., 3617 S. Ashland Ave., Chicago, Ill.
1539—Decrow Engineering Corp., 12 Lock St., Lockport, N. Y.
1540—Defiance Carriage & Body Co., Perry & Gorman Sts., Defiance, Ohio.
1541—Defiance Mfg. Co., Defiance, Ohio.
1542—Defiance Spark Plugs, Inc., 323 20th St., Toledo, Ohio.
1543—Defiance Welding Co., 513 Jackson St., Defiance, Ohio.
1545—De Laval Separator Co., 165 Broadway, New York, N. Y.
1547—Delco Appliance Corp., Rochester, N. Y.
1548—Delco Products Corp., 329 E. First St., Dayton, Ohio.
1549—Dellinger, A. M., 723 N. Prince St., Lancaster, Pa.
1552—Delphos Bending Co., 901 S. Main St., Delphos, Ohio.
1553—Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.
1554—Delta File Works, 4837 James St., Philadelphia, Pa.
1555—De Luxe Metal Furniture Co., Struthers St., Warren, Pa.
1556—De Luxe Products Corp., 2001 Lake St., La Porte, Ind. Adv. p. 110.
1557—De Luxe Windshield Co., 1533 Franklin St., San Francisco, Calif.
1558a—De Martini Motor Truck Co., 435 Pacific St., San Francisco, Calif.
1559—Deming Co., Salem, Ohio.
1560—Denby Motor Truck Co., 2200 Diamond St., Philadelphia, Pa.
1561—Denning Mfg. Co., 1775 E. 87th St., Cleveland, Ohio.
1566—Desmond-Stephan Mfg. Co., 317 S. Walnut St., Urbana, Ohio.
1567—DeSoto Motor Corp., Div. Chrysler Sales Corp., 12300 Oakland Ave., Detroit, Mich.
1568—Detroit Air Compressor Co., 83 E. Baltimore Ave., Detroit, Mich.
1569—Detroit Auto Piston Co., 1139 W. Baltimore Ave., Detroit, Mich.
1570—Detroit Belt Lacer Co., 3947 A St., Detroit, Mich.
1573—Detroit Cover Co., 3410 W. Fort St., Detroit, Mich.
1574—Detroit Gear & Machine Co., 670 E. Woodbridge St., Detroit, Mich.
1575—Detroit Leather Works, 683 E. Lafayette Ave., Detroit, Mich.
1576—Detroit Metal Specialty Corp., 1651 Beard Ave., Detroit, Mich.
1578—Detroit Piston Ring Co., 7403 Richmond Ave., Detroit, Mich.
1580—Detroit Rubber Products, Inc., 2841 E. Grand Blvd., Detroit, Mich.
1582—Detroit Steel Products Co., 2250 E. Grand Blvd., Detriot, Mich.
1583—Detroit Tire Cover Co., 49 Selden Ave., Detroit, Mich.
1584—Detroit Trailer & Machine Co., 453 Beaufait Ave., Detroit, Mich.
1585—Dettra Flag Co., Oaks, Pa.
1587—DeVilbiss Co., 300 Phillips Ave., Toledo, Ohio.
1588—Devoe & Raynolds Co., 1 W. 47th St., New York, N. Y.
1589—Dexter Rubber Mfg. Co., 224 W. Main St., Goshen, N. Y.
1589a—Diamond Calk Horseshoe Co., 46th-47th Ave., W., & Grand, Duluth, Minn.
1589b—Diamond Drill Carbon Co., 53 Park Row, New York, N. Y.
1590—Diamond Machine Co., 9 Codding St., Providence, R. I.
1591—Diamond Rubber Co., 502 S. Main St., Akron, Ohio.
1592—Diamond Saw & Stamping Works, 347 Davey St., Buffalo, N. Y.
1593—Diamond T Motor Car Co., 4517 W. 26th St., Chicago, Ill.
1595—Dictograph Products Corp., 220 W. 42nd St., New York, N. Y.
1596—Diehl Mfg. Co., fcot of Trumbull St., Elizabeth, N. J.
1597—Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago, Ill.
1599—Dietz Co., R. E., 60 Laight St., New York, N. Y.
1602—Dill Mfg. Co., 686 E. 82nd St., Cleveland, Ohio. Adv. p. 73.
1603—Dilwood Mfg. Co., 215 Chestnut St., Newark, N. J.
1604—Disston & Sons, Henry (Tacony), Philadelphia, Pa.
1604a—Distillate Stove Co., 275 17th St., Chicago Heights, Ill.
1605—Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
1607—Divco-Detroit Corp., 2435 Merrick Ave., Detroit, Mich.
1608—Divine Bros. Co., 102 Whitesboro St., Utica, N. Y.
1609—Dixon Crucible Co., Joseph, Jersey City, N. J.
1609a—Dixon Motor Truck Co., 2501 Beale Ave., Altoona, Pa.
1611—Doane Motor Truck Co., 428 Third St., San Francisco, Calif.
1614—Dodge Brothers Corp., Div. of Chrysler Corp., 7900 Jos. Campau Ave., Detroit, Mich.
1615—Doering Spark Plug Co., 136 Tichenor St., Newark, N. J.
1616—Doerr Brass, Bronze & Aluminum Co., C. J., 725 N. Delphos St., Kokomo, Ind. (Sole Distributors, Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.)
1618—Dole Valve Co., 1913-33 Carroll Ave., Chicago, Ill Adv. p. 63.
1619—Dolphin Paint & Varnish Co., Champlain & Locust Sts., Toledo, Ohio.
1620—Donaldson Co., 666 Pelham St., St. Paul, Minn.
1622—Dooley Improvements, Inc., 4434 Seventh Ave., Rock Island, Ill.
1623—Doran Lubricator Co., 150 Chestnut St., Providence, R. I.
1624—Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
1625—Dorbeck, R. V., 801 Third Ave., Asbury Park, N. J.
1626—Dorman Star Washer Co., 219 E. Eighth St., Cincinnati, Ohio. Adv. p. 124.
1627—Dormeyer Mfg. Co., A. F., 2640 Greenview Ave., Chicago, Ill.
1628—Doublee Mfg. Corp., 10 Market St., Cold Spring, N. Y.
1629—Douglas Mfg. Co., H. A., Railroad St., Bronson, Mich.
1630—Douglas Truck Mfg. Co., 30th & Sprague Sts., Omaha, Neb.
1631—Dover Mfg. Co., Dover, Ohio.
1632—Dover Stamping & Mfg. Co., 385 Putnam Ave., Cambridge, Mass.
1633—Drake Lock-Nut Co., 2448 E. 75th St., Cleveland, Ohio.
1637—Dual Duty Co., Alma, Mich.
1639—Duby Co., J. F., 83 Southern Artery, Dorchester, Mass.
1640—Dudley Lock Corp., 26 N. Franklin St., Chicago, Ill.
1641—Duesenberg, Inc., 1511 W. Washington St., Indianapolis, Ind.
1642—Duff Engineering Co., Nebraska City, Neb.
1643—Duff-Norton Mfg. Co., Preble Ave., N. S., Pittsburgh, Pa.
1644—Dumore Co., 16th & Junction Sts., Racine, Wis.
1646—Duncan Co., W. H., 70 Worth St., New York, N. Y.
1648—Dunham Co., C. A., 450 E. Ohio St., Chicago, Ill.
1649—Dunlop Tire & Rubber Co., River Rd. & Sheridan Drive, Buffalo, N. Y.
1650—Dunning & Boschert/Press Co., 325 W. Water St., Syracuse, N. Y.
1651—Dunn Mfg. Co., 117 15th St., Clarinda, Iowa.
1653—Dunton Co., M. W., 670 Eddy St., Providence, R. I.
1654—Duoflex Piston Ring Co., 611 N. 15th St., Philadelphia, Pa.
1655—Duplate Corp., 2130 Grant Bldg., Pittsburgh, Pa. (Sole distributors, Pittsburgh Plate Glass Co., Grant Bldg., Pittsburgh, Pa.)
1656—Duplex Accelerator Mfg. Co., 108 N. Center St., Marshalltown, Iowa.
1657—Duplex Truck Co., Hazel St., Lansing, Mich.
1658—Duplex Wrench Corp., Jamestown, N. Y.
1659—DuPont de Nemours & Co., E. I., Fairfield, Conn.
1660—DuPont de Nemours & Co., E. I., General Motors Bldg., Detroit, Mich.
1661—DuPont de Nemours & Co., E. I., Newburgh, N. Y.
1662—DuPont Motors, Inc., Wilmington, Del.
1663—DuPont Viscoloid Co., 626 Schuyler Ave., Arlington, N. J.
1664—Dural Rubber Corp., Maple Ave., Flemington, N. J.
1665—Durant Motor Co. of Mich., Lansing, Mich.
1666—Dura-Products Mfg. Co., 403 Tonner Court, Canton, Ohio.
1667—Durkee-Atwood Co., 40 Wilder St., Minneapolis, Minn. Adv. p. 86.
1668—Durlach Can & Iron Works, 234 Bridge St., Brooklyn, N. Y.
1669—Duro Metal Products Co., 2649 N. Kildare Ave., Chicago, Ill.
1670—Duroyd Gasket & Die Mfg. Co., 1828 Amsterdam Ave., New York, N. Y.
1671—Durston Gear Corp., 25 Maltbie St., Syracuse, N. Y.
1672—Durwyllan Co., 37 Kentucky Ave., Paterson, N. J. Adv. p. 265.
1675—Dus-Pruf Metal Trunk Co., 414 W. Jefferson Ave., Detroit, Mich.

E

1800—E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y.
1801—E. M. G. Mfg. Co., Ethridge, Tenn.
1802—E-Z On Tire Cover Corp., 366 Cass Ave., Pontiac, Mich.
1804—Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.
1805—Eagle Lock Co., 26 Warren St., New York, N. Y.
1806—Eagle Machine Co., 24 N. Noble St., Indianapolis, Ind.
1807—Eagle Mfg. Co., Wellsburg, W. Va.
1808—Eagle Motor Truck Corp., 6160 Bartmer Ave., St. Louis, Mo.
1809—Eagle-Ottawa Leather Co., Grand Haven, Mich.
1810—Eagle-Picher Lead Co., 134 N. La Salle St., Chicago, Ill.
1811—Eagle Truck Body & Mfg. Corp., 45 Columbus St., Auburn, N. Y.
1813—Eastern Machine Screw Corp., Truman & Barclay Sts., New Haven, Conn.
1815—Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

1816—**Eastman Kodak Co., Chemical Sales Dept., 343 State St., Rochester, N. Y. Adv. p. 49.**
1817—Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
1819—Eaton Bumper & Spring Service Co., E. 65th St. & Central Ave., Cleveland, Ohio.
1820—Eaton Metal Products, A. H., 13th & Willis Ave., Omaha, Neb.
1823—Eberhard Mfg. Co., 2734 Tennyson Rd., Cleveland, Ohio.
1824a—Eberly & Orris Mfg. Co., W. Allen St., Mechanicsburg, Pa.
1825—Ebinger Sanitary Mfg. Co., D. A., 401 W. Town St., Columbus, Ohio.
1827—Echlin & Echlin, Inc., 799 Golden Gate Ave., San Francisco, Calif.
1829—Eclat Rubber Co., 31 E. Wetmore St., Cuyahoga Falls, Ohio.
1830—Eclipse Air Brush Co., 79 Orange St., Newark, N. J.
1831—Eclipse Fuel Engineering Co., 814 S. Main St., Rockford, Ill.
1832—**Eclipse Machine Co., Div. of Bendix Aviation Corp., Dept. 5, Elmira, N. Y. Adv. p. 127; also Front Cover.**
1837—Economy Machine Products Co., 5214 Lawrence Ave., Chicago, Ill.
1838—Economy Products Corp., 2901 Indiana Ave., Chicago, Ill.
1840—Edde Mfg. Co., 262 S. Water St., Milwaukee, Wis.
1841—Eddystone Steel Co., Ft. of Maddock St., Crum Lynne, Pa.
1842—Edelman & Co., E., 2332 Logan Blvd., Chicago, Ill.
1843—Edison Lamp Works of General Electric Co., Nela Park, Cleveland, Ohio.
1844—Edwards & Co., 140th & Exterior Sts., New York, N. Y.
1845—Edwards Mfg. Co., Fifth St. & Eggleston Ave., Cincinnati, Ohio.
1847—Efficiency Tool Corp., Morgan at Indiana Ave., Kokomo, Ind.
1849—Egry Register Co., 417 E. Monument Ave., Dayton, Ohio.
1850—Egyptian Lacquer Mfg. Co., 90 West St., New York, N. Y.
1851—Eisemann Magneto Corp., 60 E. 42nd St., New York, N. Y.
1853—Elcar Motor Co., 700 Beardsley Ave., Elkhart, Ind.
1854—Elco Tool & Screw Corp., Broadway at 13th, Rockford, Ill.
1856—Electric Arc Cutting & Welding Co., 152 Jelliff Ave., Newark, N. J.
1857—Electric Auto-Lite Co., Champlain & Chestnut Sts., Toledo, Ohio.
1860—Electric Heat Control Co., 5902 Carnegie Ave., Cleveland, Ohio.
1861—Electric Heating & Mfg. Co., Sixth Ave. North at Harrison St., Seattle, Wash.
1862—Electric Hose & Rubber Co., 12th & Dure Sts., Wilmington, Del.
1864—Electric Materials Co., Clay & Washington Sts., North East, Pa.
1866—Electric Service Supplies Co., 17th & Cambria Sts., Philadelphia, Pa.
1867—**Electric Sprayit Co., 1704 E. Colfax Ave., South Bend, Ind. Adv. p. 144.**
1867a—Electric-Steam, Inc., Jackson, Mich.
1868—Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia, Pa.
1869—Electric Tachometer Corp., Broad & Spring Garden Sts., Philadelphia, Pa.
1870—Electric Wheel Co., Walton Heights, Quincy, Ill.
1871—Electrox Co., Ft. Bridge St., Peoria, Ill.
1872—Elgin Machine Works, 412 N. State St., Elgin, Ill.
1873—Elgin National Watch Co., 35 E. Wacker Drive, Chicago, Ill.
1874—Elgin Sweeper Co., 5 Oak St., Elgin, Ill.
1875—Elgin Tool Works, 67 N. State St., Elgin, Ill.
1876—Elite Mfg. Co., 110 Ohio St., Ashland, Ohio.
1876a—Elkhart Motor Truck Co., 1730 S. Main St., Elkhart, Ind.
1877—**Elliott Addressing Machine Co., Cambridge, Mass. Adv. p. 136.**
1880—Elmes Engineering Works, Chas. F., 217 N. Morgan St., Chicago, Ill.
1881—Elwell-Parker Electric Co., 4250 St. Clair Ave., Cleveland, Ohio.
1883—**Emerol Mfg. Co., 242 W. 69th St., New York, N. Y. Adv. p. 6.**
1885—Emerson-Brantingham Corp., Preston & Tay Sts., Rockford, Ill.
1886—Emerson Mfg. Co., 161 Natoma St., San Francisco, Calif.
1887—Emmert Mfg. Co., W. Main St., Waynesboro, Pa.
1888—Empire Plow Co., Snow Plow Div., 3140 E. 65th St., Cleveland, Ohio.
1889—**Emsco Asbestos Co., 206 S. Crawford St., Downey, Calif. Adv. p. 110.**
1891—Endura Mfg. Corp., Quakertown, Pa.
1892—Englert Manufacturing Co., 2500 Jane St., Pittsburgh, Pa.
1893—Eno Rubber Corp., 110 E. 17th St., Los Angeles, Calif.
1894—Ensign Carburetor Co., 7019 S. Alameda St., Huntington Park, Calif.
1895a—Equipment Supply Co., 542 W. Washington Blvd., Chicago, Ill.
1896—Erdle Perforating Co., 171 York St., Rochester, N. Y.
1898—Erie Malleable Iron Co., Automotive Wheel Div., 12th & Cherry Sts., Erie, Pa.
1899—Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
1904—Ermet Products Co., 2100 N. Caroline St., Indianapolis, Ind.
1905—Ero Mfg. Co., 2234 Ogden Ave., Chicago, Ill.
1906—**Es-M-Co Auto Products Corp., 31 34th St., Brooklyn, N. Y. Adv. p. 119.**
1907—EsoR Mfg. Co., 705 W. First St., Hastings, Neb.
1909—Essex Rubber Co., May & Beakes Sts., Trenton, N. J.
1910—Estwing Mfg. Co., Ninth St. & 19th Ave., Rockford, Ill.
1911—Etnyre & Co., E. D., First, Second & Jefferson Sts., Oregon, Ill.
1912—Ettco Tool Co., 594 Johnson Ave., Brooklyn, N. Y.
1917—Eureka Vacuum Cleaner Co., Hamilton & Dewey Aves., Detroit, Mich.
1918—Evans Auto Loading Co., 3300 Union Trust Bldg., Detroit, Mich.
1919—Evans Flexible Reamer Corp., 3513 N. Lincoln Ave., Chicago, Ill.
1920—Evans' Sons, John, 506 N. 13th St., Philadelphia, Pa.
1921—**Evansville Tool Works, Ninth Ave. & Maryland St., Evansville, Ind. Adv. p. 160.**
1922—Everbright Mfg. Co., 724 Larkin St., San Francisco, Calif.
1923—Everhot Mfg. Co., Tenth Ave. & Seventh St., Maywood, Ill.
1925—Ever Tite Bolt Co., 4750 Sheridan Rd., Chicago, Ill.
1927—Excelsior Brass Works, 475 Tulpehocken St., Reading, Pa.
1928—Excelsior Trunk Co., 704 Delaware St., Kansas City, Mo.
1929—Excel Tool Co., 755 Union St., San Diego, Calif.
1930—Ezell Corp., Ltd., 1012 Financial Center Bldg., Oakland, Calif.

F

2000—F. A. B. Mfg. Co., 67th & Vallejo Sts., Oakland, Calif.
2003—F-K Auto Trunk Corp., 220 Osage St., Indianapolis, Ind.
2006—Fabric Products Corp., 11th & Fayette Sts., Indianapolis, Ind.
2007—Face-A-Lite Mfg. Co., 318 N. Lawler St., Mitchell, S. D.
2009—Factory Service Co., Sta. F, Milwaukee, Wis.
2010—**Fafnir Bearing Co., New Britain, Conn. Adv. p. 223.**
2011—Fageol Motors Co., 107th Ave. & Hollywood Blvd., Oakland, Calif.
2012—Fager 6-Wheel Attachment Co. of Calif., 3053 N. California Ave., Chicago, Ill.
2013—Fahrig Bearing Metal Co., 623 N. Broad St., Elizabeth, N. J. (Sole distributors, Magnolia Metal Co., 75 West St., New York, N. Y.)
2014—Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago, Ill.
2015—Fairchild Deflector Corp., 2 W. 46th St., New York, N. Y.
2017—**Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland, Ohio. Adv. p. 170.**
2018—Faith Mfg. Co., 5920 N. Crawford Ave., Chicago, Ill.
2019—Falls Rubber Co., Main St., Cuyahoga Falls, Ohio.
2020—Fandango Products of New York, Inc., 510 Sixth Ave., New York, N. Y.
2022—Fanner Mfg. Co., Brookside Park, Cleveland, Ohio.
2023—Fargo Motor Corp., Div. of Chrysler Corp., 341 Massachusetts Ave., Detroit, Mich.
2024—Faries Mfg. Co., 1036 E. Grand Ave., Decatur, Ill.
2026—Farran-Oid Co., Keystone & Cottman Sts., Philadelphia, Pa.
2027—Farrell Mfg. Co., Joliet, Ill.
2029—Faultless Rubber Co., Ashland, Ohio.
2032—Fedders Mfg. Co., 57 Tonawanda St., Buffalo, N. Y.
2033—Federal Auto Products Co., 1601 S. Mchigan Ave., Chicago, Ill.
2034—**Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y. Adv. p. 229.**
2036—Federal Leather Co., 681 Main St., Belleville, N. J.
2037—Federal Metal Hose Corp., 277 Military Rd., Buffalo, N. Y.
2038—Federal Metallic Packing Co., 29 Foundry St., Wakefield, Mass.
2039—**Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich. Adv. p. 207.**
2040—Federal Motor Truck Co., 5780 Federal Ave., Detroit, Mich.
2041—Federal Press Co., 511 E. Division St., Elkhart, Ind.
2042—Federal Pressed Steel Corp., McGraw-Hill Bldg., 520 N. Michigan Ave., Chicago, Ill.
2044—Federated Metals Corp., Great Western Smelting & Refining Branch, Woolworth Bldg., New York, N. Y.
2046—Felters Company, 99 Bedford St., Boston, Mass.
2047—**Felt Products Mfg. Co., 1508-14 Carroll Ave., Chicago, Ill. Adv. pp. 97 & 98.**
2049—Ferdinand & Co., L. W., 152 Kneeland St., Boston, Mass.
2051—Ferguson, D. E., Main St., Vernon, Mich.
2051a—Ferguson-Allan Co., Clinton St., Batavia, N. Y.
2052—Ferguson Mfg. Co., 105 Golf St., Maple Hill, New Britain, Conn.
2053—Fernald Mfg. Co., Dept. U, North East Pa.
2054—**Ferodo and Asbestos, Inc., Extension of Codwise Ave., New Brunswick, N. J. Adv. p. 106.**
2056—Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland, Ohio.
2058—Fey & Krause, Inc., 1616 S. Figueroa St., Los Angeles, Calif.
2059—Fiberloid Corp., Worcester St., Indian Orchard, Mass.
2062—Fidelity Tire & Rubber Co., Warren, Ohio.
2064—Filmolens Sales Co., 1923 Ford Bldg., Detroit, Mich.
2065—Finch Road Light Corp., General Motors Bldg., New York, N. Y.
2068—Finnell System, Inc., Elkhart, Ind.
2070—Firestone Steel Products Co., S. Main St., Akron, Ohio.
2071—Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
2071a—Firezone Oil Corp., 30 W. 61st St., New York, N. Y.
2073—Fischer Co., J. A., 393 Seventh Ave., New York, N. Y.
2074—Fischer Spring Co., Chas., 240 Kent Ave., Brooklyn, N. Y.
2074a—Fisher Body Corp., General Motors Bldg., Detroit, Mich.
2075—Fiske Iron Works, J. W., 78 Park Place, New York, N. Y.
2076—Fisk Rubber Co., Chicopee Falls, Mass.
2077—Fiss Co., A., 3432 Lindell Blvd., St. Louis, Mo.
2079—**Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. Adv. p. 96.**
2080—Fitz Gibbon & Crisp, 467 Calhoun St., Trenton, N. J.
2084—Fleming Mfg. Co., 135 Strafford St., Worcester, Mass.
2085—Flentje, Ernst, 1643 Cambridge St., Cambridge, Mass.
2087—Flexible Steel Lacing Co., 4607 Lexington St., Chicago, Ill.
2088—Flexlume Corp., 1878 Military Rd., Buffalo, N. Y.
2089—Flexo Mfg. Co., 1312 E. 12th St., Los Angeles, Calif.
2090—Florence Stove Co., 1011 Park Square Bldg., Boston, Mass.
2091—Florida Sponge & Chamois Co., 71 Gold St., New York, N. Y. (Importers.)
2092—**Flower City Specialty Co., 250 Mill St., Rochester, N. Y. Adv. pp. 36 & 37.**
2095—Fogarty Mfg. Co., 800 E. Monument Ave., Dayton, Ohio.
2101—Ford Chain Block Co., Second & Diamond Sts., Philadelphia, Pa.
2102—Ford Motor Co., 3674 Schaefer Rd. (Fordson), Detroit, Mich.
2103—Fore Electrical Mfg. Co., 5255 Wabada Ave., St. Louis, Mo.
2104—**Foreman, W. D., 54th & State Sts., Chicago, Ill. Adv. p. 79.**
2106—Formica Insulation Co., 4655 Spring Grove Ave., Cincinnati, Ohio.
2107—Forsberg Mfg. Co., 125 Sea View Ave., Bridgeport, Conn.
2108—Forsyth Metal Goods Co., Elm St., East Aurora, N. Y.
2109—Fort Recovery Stirrup Co., Fort Recovery, Ohio.
2110—Fort Wayne Battery Mfg. Co., 230 E. Fourth St., Fort Wayne, Ind.
2112—Fosdick Machine Tool Co., Blue Rock & Apple Sts., Cincinnati, Ohio.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

2113—Foster Johnson Reamer Co., 1136 W. Beardsley Ave., Elkhart, Ind.
2115—Fostoria Pressed Steel Corp., Dept. CM-2, N. Main St., Fostoria, Ohio. Adv. p. 101.
2116—Fostoria Screw Co., 1002 Blue Print Ave., Fostoria, Ohio. (Sole distributors, Toledo Steel Products Co., 3300 Summit St., Toledo, Ohio.)
2119—Four Wheel Drive Auto Co., Clintonville, Wis.
2120—Fox Automotive Products Corp., 4720 N. 18th St., Philadelphia, Pa.
2121—Fox Co., Gustave, Cor. Third & Race Sts., Cincinnati, Ohio.
2122—Fraim Lock Co., E. T., 237 Park Ave., Lancaster, Pa.
2123—France Mfg. Co., 10325 Berea Rd., Cleveland, Ohio.
2124—Francisco Auto Heater Co., Cleveland & Essex Aves., Columbus, Ohio. Adv. p. 52.
2126—Frank Foundries Corp., 115 21st St., Moline, Ill.
2127—Franklin Air Compressor Corp., 1609 Finance Bldg., Philadelphia, Pa.
2128—Franklin Automobile Co., 101 W. Marcellus St., Syracuse, N. Y.
2129—Franklin Die-Casting Corp., Cor. Gifford & Magnolia Sts., Syracuse, N. Y. Adv. p. 56.
2132—Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa.
2133—Fredericks Armature Corp., 1315 S. Wabash Ave., Chicago, Ill.
2136—Freeman Motor Co., 1217 Beaufait Ave., Detroit, Mich.
2138—Fremont Automotive Products Co., Clauss Bldg., E. State St., Fremont, Ohio.
2139—Fremont Mfg. Co., Fremont, Ohio.
2141—French Battery Co., 30 N. Michigan Ave., Chicago, Ill.
2142—French & Co., Samuel H., 400 Callowhill St., Philadelphia, Pa.
2143—French & Hecht, Inc., Third & Farnam Sts., Davenport, Iowa.
2144—French Laboratories, L. S., 296 Broadway, New York, N. Y.
2145—Frew Machine Co., 126 W. Venango St., Philadelphia, Pa.
2146—Friedli Co., John T., 5311 Alaska St., Seattle, Wash.
2147—"Friend" Mfg. Co., East Ave., Gasport, N. Y.
2148—Froiland Chain & Mfg. Co., 430 St. James Ave., Springfield, Mass.
2151—Fruehauf Trailer Co., 10960 Harper Ave., Detroit, Mich.
2154—Fuller Brush Co., 3580 Main St., Hartford, Conn.
2156—Fuller & Sons Mfg. Co., Div. of Unit Corp. of America, Bankers Bldg., Milwaukee, Wis.
2157—Fulton Bag & Cotton Mills, Atlanta, Ga.
2158—Fulton Co., 732 75th Ave., Milwaukee, Wis.
2159—Fulton Drop Forge Co., 19 W. Liberty St., Canal Fulton, Ohio.
2162—Fyrac Mfg. Co., 18th Ave. & Seventh St., Rockford, Ill.
2164—Fyr-Fyter Co., 221 Crane St., Dayton, Ohio.

G

2300—G & G Specialty Mfg. Co., 36 W. 24th St., New York, N. Y.
2304—G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
2305—Gabriel Co., 1407 E. 40th St., Cleveland, Ohio.
2306—Galef, J. L., 75 Chambers St., New York, N. Y.
2307—Galion Allsteel Body Co., Box 25, 500 S. Market St., Galion, Ohio.
2308—Gallivan, J. E., Rantoul, Ill.
2309—Gallmeyer & Livingston Co., 346 Straight Ave., Grand Rapids, Mich.
2311—Gammons-Holman Co., 395 Main St., Manchester, Conn.
2312—Ganz Bros., 11 Preston St., Ridgefield Park, N. J.
2313—Gardiner Metal Co., 1356 W. Lake St., Chicago, Ill.
2315—Gardner Motor Co., Main & Rutger Sts., St. Louis, Mo.
2317—Gardner Tap & Die Co., The, Marion, Ohio.
2318—Garfield Mfg. Co., Garfield, N. J.
2319—Garland Trunk Co., Sixth & Cedar Sts., St. Paul, Minn.
2322—Gasket Shop, 129 Tenth St., San Francisco, Cal.
2324—Gates Rubber Co., 999 S. Broadway, Denver, Colo. Adv. p. 86.
2325—Gatke, Thos. L., 2143 Builders Bldg., Chicago, Ill. Adv. p. 108.
2327—Gavitt Mfg. Co., Inc., Brookfield, Mass.
2328—Gaylord, Robert, 11th & Pestalozzi Sts., St. Louis, Mo.
2329—Gaylord Mfg. Co., 49 Park Ave., Rear, Paterson, N. J.
2330—Gears & Forgings, Inc., 3010 Woodhill Rd., Cleveland, Ohio.
2331—Geier Co., P. A., 540 E. 105th St., Cleveland, Ohio.
2334—Gem Mfg. Co., 1229 Goebel St., N. S., Pittsburgh, Pa.
2335—Gem Striper Co., 15411 Ilene Ave., Detroit, Mich.
2336—General Abrasive Co., College Ave., Niagara Falls, N. Y.
2337—General Appliance Corp., 170 Otis St., San Francisco, Calif.
2338—General Asbestos & Rubber Div. of Raybestos-Manhattan, Inc., North Charleston, S. C.
2338a—General Automotive Lock Nut Corp., General Motors Bldg., New York, N. Y.
2339—General Body Mfg. Co., 2211 Campbell St., Kansas City, Mo.
2341—General Brass Co., 100 S. Campbell Ave., Detroit, Mich.
2341a—General Cable Corp., 420 Lexington Ave., New York, N. Y.
2342—General Dry Batteries, Inc., 13100 Athens Ave., W., Cleveland, Ohio.
2343—General Electric Co., 1 River Rd., Schenectady, N. Y. Adv. p. 147.
2344—General Fire Extinguisher Co., Warren, Ohio. (Sole distributors, Grinnell Co., 260 W. Exchange St., Providence, R. I.)
2345—General Fireproofing Co., Youngstown, Ohio.
2347—General Industries Co., Olive St., Elyria, Ohio.
2348—General Lead Batteries Co., 4 Lister Ave., Newark, N. J.
2349—General Leather Co., 420 Frelinghuysen Ave., Newark, N. J.
2350—General Mfg. Co., 4127 Forest Park Blvd., St. Louis, Mo.
2351—General Motors Truck Corp., Pontiac, Mich.
2354—General Spring Bumper Corp., 2660 E. Grand Blvd., Detroit, Mich.
2355—General Tire & Rubber Co., E. Market St., Akron, Ohio.
2357—General Woodwork Corp., 1225 Budd St., Cincinnati, Ohio.
2358—Genesee Tack Co., 7 Norfolk Pl., Rochester, N. Y.
2359—Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
2360—Georgia Webbing & Tape Co., 1325 12th St., Columbus, Ga.
2361—Gets Mfg. Co., Andrews, Ind.
2362—Geuder, Paeschke & Frey Co., 1365 St. Paul Ave., Milwaukee, Wis.
2364—Giant Grip Mfg. Co., 30 Osceola St., Oshkosh, Wis.
2365—Giant Tire & Rubber Co., Lima St. & Western Ave., Findlay, Ohio.
2366—Gibbs Battery Co., Corydon, Iowa.
2369—Gifford-Wood Co., 15 Hill St., Hudson, N. Y.
2370—Gilbert & Barker Mfg. Co., Church St. & B. & A. R. R., Springfield, Mass.
2372—Gilfillan Bros., 1815 Venice Blvd., Los Angeles, Calif.
2377—Gill & Sons Forge & Machine Works, P. H., 2 Lorraine St., Brooklyn, N. Y.
2378—Gilmer Co., L. H., Cottman & Keystone Sts., Philadelphia, Pa.
2379—Gilson Bolens Mfg. Co., Port Washington, Wis.
2383—Glade Mfg. Co., 1603 S. Michigan Blvd., Chicago, Ill.
2384—Gladiator Mfg. Co., 411 N. Indiana Ave., Auburn, Ind.
2387—Glenside Woolen Mills, Skaneateles Falls, N. Y.
2388—Glenzer Co., J. C., 6463 Epworth Blvd., Detroit, Mich.
2389—Glidden Co., W. Madison Ave. at Berea Rd., Cleveland, Ohio.
2389a—Glider Over-Drive Axle Co., 3400 Scotten Ave., Detroit, Mich.
2390—Globe Insulated Wire Co., 148 Old Colony Ave., Wollaston, Mass.
2391—Globe Machine & Mfg. Co., Albert Lea, Minn.
2392—Globe Machine & Stamping Co., 1212 W. 76th St., Cleveland, Ohio. Adv. p. 67.
2393—Globe Machinery & Supply Co., 205 W. Court Ave., Des Moines, Iowa.
2394—Globe Mfg. Co., 100 Aldrich St., Battle Creek, Mich.
2396—Globe Specialty Co., 1900 Southport Ave., Chicago, Ill.
2397—Globe Ticket Co., 112 N. 12th St., Philadelphia, Pa.
2398—Globe-Union Mfg. Co., 14 Keefe Ave., Milwaukee, Wis.
2401—Godward Gas Generator, Inc., 280 Broadway, New York, N. Y.
2402—Goerlich's, Inc., 1214 Norwood Ave., Toledo, Ohio.
2404—Golden Gate Brass Mfg. Co., 251 Second St., San Francisco, Calif.
2406—Golden State Truck Co., 1020 Folsom St., San Francisco, Calif.
2407—Golde-Patent Mfg. Co., Ypsilanti, Mich.
2408—Gold Metal Folding Furniture Co., 1700 Packard Ave., Racine, Wis.
2409—Good-All Electric, Inc., Ogallala, Neb.
2410—Goodell-Pratt Co., 57 Wells St., Greenfield, Mass.
2411—Goodrich-Lenhart Mfg. Co., Hamburg, Pa.
2412—Goodrich Rubber Co., B. F., S. Main St., Akron, Ohio.
2413—Good Roads Machinery Co., Kennett Square, Pa.
2415—Goodyear Sundries & Mechanical Co., 116 Chambers St., New York, N. Y.
2416—Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
2418—Gordon Co., J. P., 272 N. Fourth St., Columbus, Ohio.
2419—Gordon Metals Corp., 187 Polk St., Milwaukee, Wis.
2420—Gordon Motor Crib Co., 8 Bridge St., New York, N. Y.
2421—Goshen Cushion & Body Co., N. Second St., Goshen, Ind.
2422—Goslin-Birmingham Mfg. Co., Box 631, Birmingham, Ala.
2423—Gotfredsen Truck Co., Rob't, 3601 Gratiot Ave., Detroit, Mich.
2425—Gould Storage Battery Corp., 1 Main St., Depew, N. Y.
2429—Graham Co., James, 293 Wooster St., New Haven, Conn.
2430—Graham-Paige Motors Corp., 8505 W. Warren Ave., Detroit, Mich.
2431—Gramm-Bernstein Corp., E. Wayne & Scott Sts., Lima, Ohio.
2432—Grammes & Sons, Inc., L. F., 340 Union St., Allentown, Pa.
2433—Gramm Motors, Inc., Delphos, Ohio.
2436—Grant Auto Electric Co., 1425 12th Ave., Seattle, Wash.
2436a—Grant Engineering Corp., South & Lincoln Ave., E., Cranford, N. J.
2437—Grant Mfg. & Machine Co., 90 Silliman Ave., Bridgeport, Conn.
2438—Grant Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
2439—Grapho-Metal Packing Co., 2232 Alvord St., Indianapolis, Ind.
2440—Grasselli Chemical Co., Guardian Bldg., Cleveland, Ohio.
2440a—Grasse Premier Truck Co., Sauk City, Wis.
2441—Graton & Knight Co., 356 Franklin St., Worcester, Mass.
2445—Gray Co., 120 S. 10th St., Minneapolis, Minn. Adv. p. 27.
2448—Greaves Machine Tool Co., Eastern Ave. & Hazen St., Cincinnati, Ohio.
2450—Greek-American Sponge Co., 158 N. Franklin St., Chicago, Ill.
2451—Green Co., Fisk Bldg., Broadway & 57th St., New York, N. Y.
2453a—Greene Mfg. Co., 1028 Douglas Ave., Racine, Wis.
2454—Greene, Tweed & Co., 109 Duane St., New York, N. Y.
2456—Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.
2458—Greenville Mfg. Works of American Aggregates Corp., Greenville, Ohio.
2460—Gresser Mfg. Co., Vincent & Dodge Sts., Detroit, Mich.
2461—Griffith-Hope Co., 57th Ave. & Mitchell St., West Allis, Wis.
2462—Grimes Brake Engineering Service, 617 E. Erie Blvd., Syracuse, N. Y.
2465—Grinnell Co., 260 W. Exchange St., Providence, R. I.
2467—Groetken Pump Co., 179 S. River St., Aurora, Ill.
2469a—Gross Mfg. Co., 2317 Ivor Ave., San Gabriel, Calif.
2472—Guaranteed Parts Co., 250 W. 54th St., New York, N. Y. Adv. pp. 246 & 247.
2473—Guiberson Corp., 1000 Forest Ave., Dallas, Tex.
2474—Guibert Steel Co., Diamond Bank Bldg., Pittsburgh, Pa.
2475—Guide Lamp Corp., 25th St. & Belt Ry., Anderson, Ind.
2476—Guilder Engineering Co., Poughkeepsie, N. Y.
2478—Gunite Corp., 302 Peoples Ave., Rockford, Ill.
2479—Gurnard Mfg. Co., 97 Rantoul St., Beverly, Mass. (Sole distributors, McIlwaine, Inc., 16 Hudson St., New York, N. Y.)
2480—Gwilliam Co., 360 Furman St., Brooklyn, N. Y.
2482—Gyro Brush Co., Springdale Ave. & N. 19th St., East Orange, N. J.

H

2600a—H & H Auto Supply Co., 6215 Cottage Grove Ave., Chicago, Ill.
2602—Haartz Co., J. C., 30 Lenox Street, New Haven, Conn.
2603—Haberer & Co., Gest & Summer Sts., Cincinnati, Ohio.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

2604—**Hackett Products Co., 407 Pine St., Providence, R. I. Adv. p. 55.**
2607—Hagy & Son, Clayton L., 16th & Carpenter Sts., Philadelphia, Pa.
2608—Hagy Waste Works, J. Milton, 836 S. Swanson St., Philadelphia, Pa.
2612—Hale Fire Pump Co., 708 Spring Mill Ave., Conshohocken, Pa.
2614—Hall Curtain Corp., 1109 N. Lancaster Ave., Dallas, Tex.
2615—Hall Mfg. Co., 1600 Woodland Ave., Toledo, Ohio.
2616—Hall-Thompson Co., Hartford, Conn.
2617—Halstead Oil Co., Union Central Life Bldg., Cincinnati, Ohio.
2619—Hamerschlag, Arthur, 17 W. 60th St., New York, N. Y.
2620—Hamilton Autographic Register Co., 802 Symmes Ave., Hamilton, Ohio.
2621—Hamilton Caster & Mfg. Co., 1647 Dixie Highway, Hamilton, Ohio.
2622—Hamilton Co., 829 E. 15th St., Brooklyn, N. Y.
2623—Hamilton Glass Instrument Co., Alexander, Washington & Forrest Sts., Conshohocken, Pa.
2625—Hamilton-Wade Co., 52 Haverhill St., Brockton, Mass.
2626—Hammett, H. G., 466 Eighth St., Troy, N. Y.
2627—**Hammett Mfg. Co., 13th & Oak Sts., Kansas City, Mo. Adv. p. 164.**
2628—**Hampden Automotive Products, Inc., 21-31 Winter St., Springfield, Mass. Adv. p. 48.**
2630—Handy Cleaner Corp., 3925 W. Fort St., Detroit, Mich.
2631—**Handy Governor Corp., 3921 W. Fort St., Detroit, Mich. Adv. p. 52.**
2632—Handy & Harman, 57 William St., New York, N. Y.
2634—Handy Mfg. Co., 9 Library St., Grand Rapids, Mich.
2635—Handy Oiler Co., Danville, Ind.
2637—Hangiter Mfg. Co., 983 S. Raymond Ave., Pasadena, Calif.
2640—Hanlon & Wilson, 321 Pennwood Ave., Wilkinsburg, Pa. (Sole distributors, J. H. Spillman, Wilkinsburg, Pa.)
2641—**Hansen Mfg. Co., 1786 E. 27th St., Cleveland, Ohio. Adv. p. 144.**
2642—Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago, Ill.
2643—Hanson Co., C. H., 178 N. Clark St., Chicago, Ill.
2646—Hardie Mfg. Co., Mechanic St., Hudson, Mich.
2647—Hardy Mfg. Co., Pendleton, Ind.
2648—Harley Soap Co., 2832 E. Pacific St., Philadelphia, Pa.
2649—Harnishfeger Corp., 4400 W. National Ave., Milwaukee, Wis.
2652—Harrington & King Perforating Co., 5655 Fillmore St., Chicago, Ill.
2653—Harrisburg Stanley Spring Works, Cameron & Calder Sts., Harrisburg, Pa.
2654—Harris Calorific Co., 2828 Washington Ave., Cleveland, Ohio.
2655—Harris & Co., Arthur, 212 N. Curtis St., Chicago, Ill.
2656—Harris Hdw. & Mfg. Co., D. P., 99 Chambers St., New York, N. Y.
2657—Harris Oil Co., A. W., 326 S. Water St., Providence, R. I.
2658—Harrison & Co., 487 Groveland St., Haverhill, Mass.
2659—Harrison Radiator Corp., Washburn & Walnut Sts., Lockport, N. Y.
2661—Harshaw Chemical Co., 1945 E. 97th St., Cleveland, Ohio.
2664—Hartford Windshield Co., 1811 S. Hope St., Los Angeles, Calif.
2665—Hartshorn Co., Stewart, 250 Fifth Ave., New York, N. Y.
2665a—Hartung Co., Charles F., 740 E. 61st St., Los Angeles, Calif. (Sole distributors, Ohio Parts Co., Ohio Bldg., 2735 Colerain Ave., Cincinnati, Ohio.)
2667—Harvey Motor Truck Works, 155th St. & Commercial Ave., Harvey, Ill.
2668—Harvey Spring & Forging Co., 17th St. & Murray Ave., Racine, Wis.
2669—Haskell Mfg. Co., Wm. H., 24 Commerce St., Pawtucket, R. I.
2670—Haskins Co., R. G., 4631 Fulton St., Chicago, Ill.
2671—Hassler Service Co., 426 Terrace Ave., Indianapolis, Ind.
2672—Hastings Mfg. Co., 375 E. Mill Street, Hastings, Mich.
2674—Hauck Mfg. Co., 126 Tenth St., Brooklyn, N. Y.
2675—Haughton Elevator & Machine Co., 671 Spencer St., Toledo, Ohio.
2676—Havana Mfg. Co., Havana, Ill.
2678—Hawkes & Co., T. G., 79 W. Market St., Corning, N. Y.
2679—Hawkeye Truck Co., 2700 Floyd Ave., Sioux City, Iowa.
2680—Haydon, A. & M., 304 N. 22nd St., Philadelphia, Pa.
2680a—Hayes Body Corp., Seventh & Muskegon Aves., Grand Rapids, Mich.
2681—Hayes Equipment Mfg. Co., 624 E. Gilbert St., Wichita, Kan.
2683—Hayes Pump & Planter Co., 819 Sixth St., Galva, Ill.
2684—Haynes Stellite Co., Kokomo, Ind.
2686—Hazard Insulated Wire Works, Div. of Okonite Co., Wilkes-Barre, Pa.
2689—Heath & Milligan Mfg. Co., 1833 Seward St., Chicago, Ill.
2690—**Hebert Mfg. Co., Central St., Franklin, N. H. Adv. p. 114.**
2691—Hecht & Co., F., 10 Spruce St., New York, N. Y.
2693—Hedges Co., B. E., 303 W. Genesee St., Auburn, N. Y.
2694—Hedstrom Mfg. Co., 4647 Lake St., Chicago, Ill.
2695—Hegeler Zinc Co., Danville, Ill.
2697—Heil Co., 1142 Montana Ave., Milwaukee, Wis.
2699—Heintz & Co., James C., 3738 W. 143rd St., Cleveland, Ohio.
2700—Hein-Werner Motor Parts Corp., Waukesha, Wis.
2701—Heinze Electric Co., Lowell, Mass.
2702—Heiz & Heiz, Inc., 33 34th St., Brooklyn, N. Y.
2703—Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
2705—Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
2707—Hempy-Cooper Mfg. Co., 418 Archibald St., Kansas City, Mo.
2707a—Henderson Bros., 215 N. Desplaines St., Chicago, Ill.
2708—Hendey Machine Co., 105 Summer St., Torrington, Conn.
2709—Hendrick Mfg. Co., 39 Dundaff St., Carbondale, Pa.
2710—Henney Motor Co., Chicago & Spring Sts., Freeport, Ill.
2711—Henry & Allen, 2 Wadsworth St., Auburn, N. Y.
2712—Henry & Wright Mfg. Co., 760 Windsor St., Hartford, Conn.
2714—Herbrand Co., Cor. Lake & Stone Sts., Fremont, Ohio.
2716—Hercules Motors Corp., Halliwell Ct., S. E., Canton, Ohio.
2717—**Hercules Products Co., 113 State St., St. Joseph, Mich. Adv. p. 166.**
2718—Hercules Products, Inc., Morton Ave., Evansville, Ind.
2720—Herman Body Co., 4420 Clayton Ave., St. Louis, Mo.
2721—Herold Bros. Co., 1104 W. Ninth St., Cleveland, Ohio.
2722—Herron-Zimmers Moulding Co., 3650 Beaufait St., Detroit, Mich.
2723—Hersee Co., F. C., 47 Bacon St., Watertown, Mass.
2724—Hertner Electric Co., 12690 Elmwood Ave., Cleveland, Ohio.
2725—Hertz Leather Co., Max., 46 Oliver St., Newark, N. J.
2727—Hesse Mfg. Co., Leavenworth, Kan.
2728—Hettrick Mfg. Co., Summit & Magnolia Sts., Toledo, Ohio.
2731—Hewitt-Ludlow Auto Co., 75 Fremont St., San Francisco, Calif.
2732—Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit, Mich.
2733—**Hexcel Radiator Co., 57 Erie St., Milwaukee, Wis. Adv. p. 126.**
2734—Heywood-Wakefield Co., 174 Portland St., Boston, Mass.
2735—Hiawatha Sales Co., 1608 Pacific Ave., Atchison, Kan.
2740—Hicks Rubber Co., Waco, Tex.
2743—Highland Body Mfg. Co., 401 Elmwood Pl., Cincinnati, Ohio.
2744—Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
2746—**Hilab Products Co., 225-27 S. Meridian St., Indianapolis, Ind. Adv. p. 85.**
2747—Hilliard Corp., 102 W. Fourth St., Elmira, N. Y.
2748—Hill Mfg. Co., Belmond, Iowa.
2749—Hill Pump Valve Co., 2302 Wabansia Ave., Chicago, Ill.
2750—Hillwood Mfg. Co., 21700 St. Clair Ave., Cleveland, Ohio.
2751—Hilo Varnish Corp., 1 Gerry St., Brooklyn, N. Y.
2755—Hinckley & Schmitt, 420 W. Ontario St., Chicago, Ill.
2756—Hindley Mfg. Co., 53 John St., Valley Falls, R. I.
2758—Hinson Mfg. Co., Westfield Ave. & Menges St., Waterloo, Iowa.
2760—Hi Pressure Sales Co., 1030 Golden Gate Ave., San Francisco, Calif.
2761—Hipwell Mfg. Co., 825 North Ave., Pittsburgh, Pa.
2762—Hires & Co., Chas. E., 206 S. 24th St., Philadelphia, Pa.
2763—Hirst-Roger Carpet Co., Allegheny & Kensington Aves., Philadelphia, Pa.
2764—Hisey-Wolf Machine Co., 2800 Colerain Ave., Cincinnati, Ohio.
2765—**Hobart Brothers, Box C50, Canal Locks Square, Troy, Ohio. Adv. p. 140.**
2767—Hobart Cabinet Co., 111 W. Water St., Troy, Ohio.
2768—Hobart Mfg. Co., Troy, Ohio.
2769—Hobart Metal Mfg. Co., 801 16th Ave., S. E., Minneapolis, Minn.
2772—Hobbs Mfg. Co., 609 N. Main St., Fort Worth, Tex.
2773—Hodes-Zink Mfg. Co., Fremont, Ohio.
2777—Hoffman Lion Mills Co., 485 Washington St., New York, N. Y.
2778—Hoggson & Pettis Mfg. Co., 141 Brewery St., New Haven, Conn.
2780—Holbrook Co., Hudson, N. Y.
2781—**Holfast Rubber Co., Lakewood Ave., Atlanta, Ga. Adv. p. 85.**
2782—Holland Mfg. Co., Central Ave. & Bank St., Baltimore, Md.
2783—Holley Carburetor Co., Vancouver Ave. & P. M. R. R., Detroit, Mich.
2784—Hollingshead Co., R. M., Ninth & Cooper Sts., Camden, N. J.
2785—Hollister-Whitney Co., 211 N. Second St., Quincy, Ill.
2786—Holmes Co., Ernest, 700 E. Main St., Chattanooga, Tenn.
2787—Holophane Co., 342 Madison Ave., New York, N. Y.
2792—Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Coraopolis, Pa.
2793—Hones, Charles A., 122 S. Grand Ave., Baldwin, N. Y.
2794—Honeycutt-Harris Battery Corp., 411 Southwest Blvd., Kansas City, Mo.
2795—Honeycutt Mfg. Co., 18 E. 17th St., Kansas City, Mo.
2796—Honold Mfg. Co., 824 Pennsylvania Ave., Sheboygan, Wis.
2798—Hood Rubber Co., 98 Nichols Ave., Watertown, Mass.
2799—Hoof Co., John C., 162 N. Franklin St., Chicago, Ill.
2800—Hoopes Bro. & Darlington, Inc., West Chester, Pa. (Licensees.)
2801—Hoover Parts Co., 14154 Superior Rd., Cleveland, Ohio.
2802—Hoover Spring Co., 201 Franklin St., San Francisco, Calif.
2803—Hoover Steel Ball Co., Ann Arbor, Mich.
2807—**Houde Engineering Corp., Div. Houdaille-Hershey Corp., 537-43 E. Delavan Ave., Buffalo, N. Y. Adv. p. 68.**
2808—Houghton & Co., E. F., 240 W. Somerset St., Philadelphia, Pa.
2809—Houze Convex Glass Co., L. J., Point Marion, Pa.
2812—Howard Foundries, Inc., 9500 W. Belmont Ave., Franklin Park, Ill.
2813—Howe Fire Apparatus Co., Anderson, Ind.
2814—Howe Scale Co., Rutland, Vt.
2817—Hoyt-Beardsley Mfg. Co., 506 Frances Bldg., Sioux City, Iowa.
2818—Hoyt Electrical Instrument Works, Penacook, N. H. (Sole distributors, Burton-Rogers Co., 755 Boylston St., Boston, Mass.)
2819—Hubbard Products Co., 201 W. North St., Kokomo, Ind.
2820—Hub Cap Co., 104 Oliver St., North Tonawanda, N. Y.
2821—Hub City Iron Works, 218 First Ave., S. W., Aberdeen, S. D.
2822—**Hubco Mfg. Co., 404 W. Conway St., Baltimore, Md. Adv. p. 138.**
2823—Huber & Co., W. B., 2652 Lacy St., Los Angeles, Calif.
2824—**Hudson Motor Car Co., 12601 E. Jefferson Ave., Detroit, Mich. Adv. p. 18.**
2825—Huetter Machine & Tool Co., 543 Kentucky Ave., Indianapolis, Ind.
2826—Huffman Mfg. Co., Davis & Gilbert Aves., Dayton, Ohio.
2827—Hug Co., Highland, Ill.
2829—Hughes-Keenan Co., Wayne & Newman Sts., Mansfield, Ohio.
2834—Humason Mfg. Co., Stafford Ave., Forestville, Conn.
2835—Hunt Automotive Equipment Co., Geo. L., 217 Iowa St., Davenport, Iowa.
2836—Hunt Battery Mfg. Co., 409 W. Okmulgee Ave., Muskogee, Okla.
2838—Hunter Pressed Steel Co., Lansdale, Pa.
2839—Hunter Saw & Machine Co., 57th & Butler Sts., Pittsburgh, Pa.
2840—Hunt-Helm-Ferris Co., Harvard, Ill.
2841—Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
2842—Hunt & Son, C. B., 636 McKinley Ave., Salem, Ohio.
2843—Hunt-Spiller Mfg. Corp., 383 Dorchester Ave., Boston, Mass.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

2844—Hupp Motor Car Corp., 3501 E. Milwaukee Ave., Detroit, Mich.
2845—Hurd, E. P., 5822 Fisher Ave., Detroit, Mich.
2846—Husky Corporation, Lake Shore Rd., Kenosha, Wis.
2848—Hutto Engineering Co., 515 Lycaste Ave., Detroit, Mich.
2849—Hyatt Roller Bearing Co., Newark, N. J.
2850—Hyde Mfg. Co., Eastford Rd., Southbridge, Mass.
2851—Hydraulic Brake Co., 2843 Grand Blvd., E., Detroit, Mich. Adv. Front Cover.
2853—Hydraulic Pressed Bearing Co., Lincoln & Platt Sts., Niles, Mich.
2855—Hydrometer Corporation of America, 401 S. Sangamon St., Chicago, Ill.
2857—Hygenia Brush Co., 9 May St., Worcester, Mass.
2858—Hygrade Products Co., 17 W. 60th St., New York, N. Y. Adv. p. 90.
2860—Hyman Co., S. E., Concord St., Fremont, Ohio.
2861—Hy-Power Mfg. Corp., Pearl St., Mt. Vernon, N. Y.
2862—Hyro Mfg. Co., 200 Varick St., New York, N. Y.

I

3000—I. X. L. Glass Corp., 151 S. Waterman Ave., Detroit, Mich. (Importers.)
3002—Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y. Adv. p. 63.
3003—Ideal Commutator Dresser Co., 1014 Park Ave., Sycamore, Ill.
3007—Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago, Ill.
3010—Illinois Iron & Bolt Co., Carpentersville, Ill.
3014—Illinois Stamping & Mfg. Co., 220 N. Jefferson St., Chicago, Ill.
3015—Imperial Bit & Snap Co., 14th & Clark Sts., Racine, Wis.
3016—Imperial Brass Mfg. Co., 1225 W. Harrison St., Chicago, Ill. Adv. p. 170.
3017—Imperial Electric Co., 64 Ira Ave., Akron, Ohio.
3017a—Imported Motors, Inc., 37 W. 65th St., New York, N. Y. (Importers.) Adv. p. 34.
3018—Improved Gauge Mfg. Co., 105 Canal St., Syracuse, N. Y. Adv. p. 150.
3021—Indestructible Wheel Co., 809 E. Walnut St., Lebanon, Ind.
3022—Indestructo Glass Corp., Farmingdale, L. I., N. Y.
3024—Indiana Body Co., Richmond, Ind.
3026—Indianapolis Brush & Broom Mfg. Co., 2260 Brush St., Indianapolis, Ind.
3027—Indianapolis Saddlery Co., 237 S. Meridian St., Indianapolis, Ind.
3028—Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
3029—Indiana Truck Corp., Indiana Park, Marion, Ind.
3030—Indian Refining Co., 1 Havoline St., Lawrenceville, Ill.
3031—India Tire & Rubber Co., Mogadore St., Akron, Ohio.
3033—Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
3034—Ingraham Co., E., Bristol, Conn.
3035a—Inland Mfg. Co., 15 Coleman St., Dayton, Ohio.
3040—International Chain & Mfg. Co., 1015 Chestnut St., Philadelphia, Pa.
3041—International Chemical Co., 2628 N. Mascher St., Philadelphia, Pa.
3043—International Harvester Co., 606 S. Michigan Ave., Chicago, Ill.
3045—International Metal Hose Co., 10109-15 Quincy Ave., Cleveland, Ohio. Adv. p. 135.
3046—International Metal Polish Co., Quill St. & Belt R. R., Indianapolis, Ind.
3048—International Motor Co., 25 Broadway, New York, N. Y.
3049—International Oxygen Co., 796 Frelinghuysen Ave., Newark, N. J.
3050—International Register Co., 15 S. Throop St., Chicago, Ill.
3051—International Screw Co., 2751 W. Kirby Ave., Detroit, Mich.
3052—International Stamping Co., 400 N. Leavitt St., Chicago, Ill.
3054—International Steel & Iron Co., 1321 Edgar St., Evansville, Ind.
3056—International Time Recording Co., 50 Broad St., New York, N. Y.
3057—International Valve Lock Co., 616 S. Michigan Ave., Chicago, Ill.
3059—Interstate Chemical Co., Bayview Ave. & Garfield St., Jersey City, N. J.
3060—Interstate Electric Co., 4339 Duncan Ave., St. Louis, Mo.
3062—Invincible Vacuum Cleaner Mfg. Co., 14th & Davis Sts., Dover, Ohio.
3064—Iron City Wiping Materials Co., Overhill & Reed Sts., Pittsburgh, Pa.
3065—Irving Engineering Co., Seventh & Division Sts., Sioux City, Iowa.
3066—I-Sis Laboratories, Inc., 2 Jones Lane, New York, N. Y.
3067—Iten Fibre Co., 5403 Bower Ave., Cleveland, Ohio.
3069—Izett Auto Body Co., 1448 Speer Blvd., Denver, Colo.

J

3101—Jacobs Mfg. Co., 2072 Park Rd., Hartford, Conn.
3102—Jadson Motor Valve Co., 8354 Wilcox Ave., Bell, Calif.
3103—Jaeger Watch Co., 304 E. 45th St., Allied Arts Bldg., New York, N. Y.
3104—Jambor Tool & Stamping Co., 1261 30th St., Milwaukee, Wis. Adv. p. 118.
3104a—Jamestown Metalsmiths, Inc. (Wrench Div.), 217 Hopkins Ave., Jamestown, N. Y.
3106—Jansen Machine Co., 741 21st St., Des Moines, Iowa.
3107—Jarecki Mfg. Co., 1305 W. 12th St., Erie, Pa.
3108—Jarvis Co., W. B., 1501 Paris Ave., Grand Rapids, Mich.
3110—Jay Mfg. Co. of Illinois, 17 E. 24th St., Chicago, Ill. (Eastern territory.)
3111—Jeannette Glass Co., Jeannette, Pa.
3112—Jeavons Co., Clauss Bldg., E. State St., Fremont, Ohio. Adv. p. 50.
3113—Jefferis Co., R. W., 11th & Linden Sts., Camden, N. J.
3114—Jefferson Electric Co., 1508 S. 15th St., Chicago, Ill. Adv. p. 46.
3115—Jefferson Glass Co., State St., Follansbee, W. Va.
3116—Jenkins Vulcan Spring Co., Eighth & N. G Sts., Richmond, Ind. Adv. p. 128.
3118—Jeschke Wire Specialty Works, Crawfordsville, Ind.
3119—Jessop Co., S. T., 219 W. Chicago Ave., Chicago, Ill.
3120—Jewell Bros. Products Co., 549 Fulton St., Chicago, Ill.
3121—Jewell Electrical Instrument Co., 1650 W. Walnut St., Chicago, Ill. (Sole distributors, Battery Equipment & Supply Co., 7524 Greenwood Ave., Chicago, Ill.)
3122—Jewell Paint & Varnish Co., 345 N. Western Ave., Chicago, Ill.
3123—Jiffe Co., Ashburner & Hegerman Sts., Holmesburg, Philadelphia, Pa.
3127—Johns-Manville, 292 Madison Ave., New York, N. Y. Adv. p. 109.
3128—Johnson Belting Co., 423 E. 56th St., New York, N. Y.
3129—Johnson Bronze Co., S. Mill St., New Castle, Pa. Adv. p. 84.
3131—Johnson Gas Appliance Co., 520 E Ave., Cedar Rapids, Iowa.
3132—Johnson & Johnson, George St., New Brunswick, N. J.
3134—Johnson Mfg. Co., Geo. W., 209 W. 17th St., Kansas City, Mo.
3136—Johnson Piston Ring Co., 6010 Woodward Ave., Detroit, Mich.
3137a—Johnston Glass Co., Hartford City, Ind.
3138—Johnston & Jennings Co., 877 Addison Rd., Cleveland, Ohio.
3140—Jones, Mark W., 53rd St. & Lansdowne Ave., Philadelphia, Pa.
3141—Jones Clutch & Gear Co., Upper Sandusky, Ohio.
3143—Jones & Laughlin Steel Corp., Jones & Laughlin Bldg., Pittsburgh, Pa.
3146—Jones Spring Co., W. B., 809 Walnut St., Cincinnati, Ohio.
3147—Jordon Fabric Mfg. Co., 2920 McGee Trafficway, Kansas City, Mo.
3148—Jordon Motor Car Co., 1070 E. 152nd St., Cleveland, Ohio.
3149—Joyce-Gridland Co., 333 S. Linden Ave., Dayton, Ohio.
3150—Jubilee Mfg. Co., 1929 S. 20th St., Omaha, Neb.
3151—Judd & Leland Mfg. Co., Hibbard Ave., Clifton Springs, N. Y.
3155—Julian Pump & Mfg. Corp., Lakewood Rd. & Howard Ave., Jamestown, N. Y.
3156—Jungersen Dump Body Co., Milwaukee, Wis.
3158—Jupiter Spark Plug Co., 716 E. Pike St., Seattle, Wash.
3159—Justrite Mfg. Co., 2070 Southport Ave., Chicago, Ill.

K

3200—K-D Lamp Co., 108-18 W. Third St., Cincinnati, Ohio. Adv. p. 64.
3201—K-D Mfg. Co., 510-24 Plum St., Lancaster, Pa.
3202—K-E-M Mfg. Co., 247 West 55th St., New York, N. Y. (Sole distributors, Brown & Green Ignition Sales Co., 245 W. 55th St., New York, N. Y.) Adv. p. 249.
3203—K & G Mfg. Co., 1805 Sixth Ave., N., Birmingham, Ala.
3205—K-O Mfg. Corp., 603 American Bldg., Cincinnati, Ohio.
3207—K-W Ignition Corp., 2811 Chester Ave., Cleveland, Ohio.
3208—K & W Rubber Co., Delaware, Ohio.
3209—Kacena-Thaler Co., 2309 Indiana Ave., Chicago, Ill.
3210—Kahn Bros., 785 Humboldt St., Brooklyn, N. Y.
3211—Kalbfleisch Corp., 200 Fifth Ave., New York, N. Y.
3212—Kales Stamping Co., 1669 W. Lafayette Blvd., Detroit, Mich. Adv. p. 61.
3213—Kane Mfg. Co., 734 Beacom Lane, Merion, Pa.
3213a—Kansas City Oxygen Gas Co., 2012 Grand Ave., Kansas City, Mo.
3220—Kant Slip Valve Lifter Co., Sidney, Ill.
3221—Kaplan Specialty Co., 31 Summer Ave., Newark, N. J.
3222—Kari-Keen Mfg. Co., Seventh & Division Sts., Sioux City, Iowa.
3226—Kaufmann & Sons, Chas., 1623 E. First St., Santa Ana, Calif.
3227—Kautz & Co., Fred C., 2633 W. Lake St., Chicago, Ill.
3228—Kawneer Co., 931 Front St., Niles, Mich.
3230—Kay-Brunner Steel Products, Inc., 2721 Elm St., Los Angeles, Calif.
3231—Kay & Ess Co., Leo & Kiser Sts., Dayton, Ohio.
3234—Keasbey & Mattison Co., Butler & Railroad Aves., Ambler, Pa. Adv. p. 263.
3237—Keep Klean Cover Co., 1048 Tyler St., St. Louis, Mo. Adv. p. 44.
3238—Keesee Mfg. Co., 723 W. Belgrave Ave., Huntington Park, Calif.
3239—Kehawke Mfg. Co., 825 Western Ave., Minneapolis, Minn.
3240—Kelley & Stewart Co., Water & Joiners Sts., South Brownsville, Pa.
3241—Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y. Adv. Second Page from Inside Back Cover.
3245—Kelly Foundry & Machine Works, 228 N. Town St., Mt. Gilead, Ohio.
3246—Kelly Reamer Co., 3705 W. 73rd St., Cleveland, Ohio.
3247—Kelly-Springfield Tire Co., General Motors Bldg., New York, N. Y.
3249—Kempsmith Mfg. Co., 45th & Rogers Sts., Milwaukee, Wis.
3250—Kennedy Car Liner & Bag Co., Shelbyville, Ind. Adv. p. 62.
3251—Kennedy Mfg. Co., 501 N. Monroe St., Streator, Ill.
3252—Kennedy Mfg. Co., North Harrison St., Van Wert, Ohio.
3254—Kent Co., 103 Canal St., Rome, N. Y.
3256—Kent-Moore Organization, 3-158 General Motors Bldg., Detroit, Mich.
3258—Kentucky Wagon Mfg. Co., Third St. at Eastern Parkway, Louisville, Ky.
3259—Kenworth Motor Truck Corp., 1263 Mercer St., Seattle, Wash.
3260—Kenyon Co., C., First Ave & 57th St., Brooklyn, N. Y.
3262—Keratol Co., 348 Van Buren St., Newark, N. J.
3263—Kerlow Steel Flooring Co., 222 Culver Ave., Jersey City, N. J.
3264—Kerrihard Co., 401 W. Coolbaugh St., Red Oak, Iowa.
3265—Kester Solder Co., 4201 Wrightwood Ave., Chicago, Ill.
3266—Keystone Boiler & Foundry Co., Broad St., Landisville, Pa.
3267—Keystone Emery Mills, 1665 Church St., Philadelphia, Pa.
3268—Keystone Forging Co., Northumberland, Pa.
3270—Keystone Mfg. Co., 41 Chandler St., Buffalo, N. Y.
3271—Keystone Reamer & Tool Co., Millersburg, Pa.
3272—Keystone Sales Corp., 1826 Sixth St., Detroit, Mich. Adv. p. 166.
3275—Kickhaefer Mfg. Co., Dept. A, 359 Reed St., Milwaukee, Wis.
3276—Kidde & Co., Walter, 140 Cedar St., New York, N. Y.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

3277—Kiernan & Co., W. C., 201 State St., Whitewater, Wis.
3278—Kilborn-Sauer Co., Post Road, Fairfield, Conn.
3279—Killark Electric Mfg. Co., 3940 Easton Ave., St. Louis, Mo. Adv. p. 51.
3280—Kimball Bros. Co., 1004 Ninth St., Council Bluffs, Iowa.
3282—Kimball Motor Truck Corp., 1700 E. Ninth St., Los Angeles, Calif.
3282a—Kimble Electric Co., 2011 W. Hastings St., Chicago, Ill.
3283—Kingham Trailer Co., 235 Gaulbert Ave., Louisville, Ky.
3284—King Quality Products Co., 2320 Cooper St., St. Louis, Mo.
3285—King-Seeley Corp., 312 First St., Ann Harbor, Mich. Adv. p. 64.
3286—Kingsley-Miller Co., 625 W. Jackson Blvd., Chicago, Ill.
3287—Kingston Products Corp., 1400 N. Webster St., Kokomo, Ind.
3288—King-Zeitler Co., 315 N. Ada St., Chicago, Ill.
3289—Kinnear Mfg. Co., 718 Field Ave., Columbus, Ohio.
3290—Kinney Mfg. Co., 3529 Washington St., Jamaica Plain, Boston, Mass.
3291—Kinney Quick-Dim Co., 3529 Washington St., Jamaica Plain, Boston 30, Mass. Adv. p. 66.
3292—Kinsman Co., H. W., Norwood, N. Y.
3293—Kirchberger & Co., M., 1425 37th St., Brooklyn, N. Y.
3294—Kirk & Blum Mfg. Co., 2858 Spring Grove Ave., Cincinnati, Ohio.
3296—Kirkman Engineering Corp., 1 Dominick St., New York, N. Y.
3297—Kirkpatrick, Inc., 122 Woodlawn Ave., Bywood Heights, Upper Darby, Pa.
3298—Kirk-Zwicker Co., 160 Second St., Cambridge, Mass.
3299—Kirstin Mfg. Co., Kirstin Bldg., Escanaba, Mich.
3300—Kissel Motor Car Co., 182 Kissel Ave., Hartford, Wis.
3303—Klaxon Co., Anderson, Ind.
3305—Kleenkar Fabric Equipment Co., 251 E. Water St., Milwaukee, Wis.
[illegible]—Kleiber Motor Co., 1480 Folsom St., San Francisco, Calif.
[illegible]—Klein Structural Steel Co., Bellevue, Ohio.
[illegible]—Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
3312—Knapp Electric, Inc., Div. P. R. Mallory & Co., 3029 E. Washington St., Indianapolis, Ind.
3316—Knapp-Monarch Co., 1413 Pine St., St. Louis, Mo.
3320—Knight & Thomas, 212 Summer St., Boston, Mass.
3321—Knopf, Paul, 3211 39th Ave., Long Island City, L. I., N. Y.
3323—Kodel Electric & Mfg. Co., 507 E. Pearl St., Cincinnati, Ohio.
3324—Koehler Rubber Co., 1369 W. Ninth St., Cleveland, Ohio.
3327—Kokomo Rubber Co., 1016 S. Main St., Kokomo, Ind.
3327a—Kokomo Spring Co., Firmin & La Fountain Sts., Kokomo, Ind.
3328—Kolo Products Co., 320 Fifth Ave., New York, N. Y.
3329—Kool Kooshion Mfg. Co., 105 E. California Ave., Oklahoma City, Okla.
3330—Korect Air Meter Corp., 303 Grote St., Buffalo, N. Y. (Also sole distributors, Kellogg Mfg. Co., 65 Humboldt St., Rochester, N. Y.)
3331—Koscherak Siphon Bottle Works, 232 E. 42nd St., New York, N. Y.
3332—Koupet Auto Top Co., Rec[illegible]tion, Belleville, Ill.
3333—Kozak, Inc., 1 Park Place, Havana, N. Y. Adv. p. 76.
3334—Kozekar, Inc., 910 13th Ave., S. E., Minneapolis, Minn.
3336—Kraeuter & Co., 583 18th Ave., Newark, N. J.
3337—Krahn Mfg. Co., 588 Clinton St., Milwaukee, Wis.
3340—Kratzer Carriage Co., 100 S. First St., Des Moines, Iowa.
3342—Kreamer, Inc., A., 307 Kent Ave., Brooklyn, N. Y.
3344—Kreiss Sign Co., 853 Washington St., Buffalo, N. Y.
3345—Krembs & Co., 669 W. Ohio St., Chicago, Ill.
3348—Krohn Differential Corp., 209 S. La Salle St., Chicago, Ill.
3349a—Kuller Electric Mfg. Co., 33-22 Northern Blvd., Long Island City, N. Y.
3350—Kund Cabinet Co., Bedford, Pa.
3351—Kunkel Mfg. Co., Hart, Mich.
3352—Kurz-Kasch Co., Broadway & Morris Ave., Dayton, Ohio.
3355—Kysor Heater Co., Haynes St., Cadillac, Mich.

L

3401—L.M. Gear Co., 7203 Gratiot Ave., Detroit, Mich.
3402—L.M. & W. Mfg. Co., W. Gay St., West Chester, Pa.
3406—Lacer-Hallett Corp., 1224 E. Eighth St., Los Angeles, Calif.
3407—LaCrosse Tractor Co., LaCrosse, Wis.
3408—Ladew Co., Edward R., 29 Murray St., New York, N. Y.
3409—Lafayette Steel Products, Inc., Lafayette, Ind.
3409a—LaFrance-Republic Corp., 903 Michigan Ave., Alma, Mich.
3410—Laher Auto Spring Co., 26th & Magnolia Sts., Oakland, Calif.
3411—Laidlaw Co., 16 W. 60th St., New York, N. Y.
3414—Lakewood Rubber Co., 7023 Lexington Ave., Cleveland, Ohio.
3417—Lamb-Grays Harbor Co., Hoquiam, Wash.
3418—Laminated Shim Co., 14th St., Long Island City, N. Y. (Distributors, Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit, Mich.) Adv. p. 205.
3420—Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
3421—Lancaster Lens Co., Lancaster, Ohio.
3422—Landers Corp., Buckingham & Blucher Sts., Toledo, Ohio.
3423—Landis Engineering & Mfg. Co., Waynesboro, Pa.
3426—Lange Machine Works, Henry G., 150 N. May St., Chicago, Ill.
3428—Lansden Co., Shelter Rock Rd., Danbury, Conn.
3429—Lansing Co., Lansing, Mich.
3431—Lapeer Trailer Corp., Fair St., Lapeer, Mich.
3433—La Plant-Choate Mfg. Co., Cedar Rapids, Iowa.
3436—Larabee-Deyo Corp., Hillcrest, Binghamton, N. Y.
3437—Larson & Lunberg, 325 N. Main St., Kewanee, Ill.
3438—Larson Tool & Stamping Co., Olive St., Attleboro, Mass.
3439—LaSalle Machine Works, 3013 S. LaSalle St., Chicago, Ill.
3441—Lasco Corp., 2415 N. Howard St., Philadelphia, Pa.
3445—Lavietes Mfg. Co., Sta. A, New Haven, Conn.
3446—Lavo Co. of America, 48 Seventh St., Milwaukee, Wis.
3447—Lawrence Leather Co., A. C., Peabody, Mass.
3448—Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
3451—Leadox Battery Co., Neave & English Sts., Cincinnati, Ohio.
3452—Leak Micrometer Corp., 2926 Telegraph Ave., Berkeley, Calif.
3453—Leard Co., William, Fifth & 16th Sts., New Brighton, Pa.
3455—Leather Products Co., Front & Scott Sts., Covington, Ky.
3457—LeBlond Machine Tool Co., R. K., Madison & Edwards Rds., Cincinnati, Ohio.
3458—LeBlond-Schacht Truck Co., Eighth & Evans Sts., Cincinnati, Ohio.
3459—Lebzelter & Son Co., Philip, 241 N. Queen St., Lancaster, Pa.
3461—LeCount Tool Works, Wm. G., Merritt Place, South Norwalk, Conn.
3462—Leece-Neville Co., 5363 Hamilton Ave., Cleveland, Ohio.
3463—Lee Knight Lens Co., 210 East Ave., Rochester, N. Y.
3464—Lee-O-Lectric Mfg. Co., 1411 W. Front St., Monroe, Mich.
3465—Lees Co., John, 241 W. Georgia St., Indianapolis, Ind.
3466—Lees Mfg. Co., 320 Broadway, New York, N. Y.
3467—Lee & Son Co., K. O., 114 First Ave., N. E., Aberdeen, S. D.
3468—Lee's Tire Chain Industries, Inc., 308 E. Water St., Jefferson City, Mo.
3469—Lee Tire & Rubber Co. Conshohocken, Pa.
3471—Leich Electric Co., Genoa, Ill.
3472—Leland-Detroit Mfg. Co., 5680 12th St., Detroit, Mich.
3474—Lempco Products, Inc., Dunham Rd., Bedford, Ohio.
3477—Leonard Spark Plug Co., First Ave. & 21st St., N., St. Petersburg, Fla.
3478—Lepel High Frequency Laboratories, Inc., 39 W. 60th St., New York, N. Y.
3485—Levey, A. V. & B. W., 307 Canal St., New York, N. Y.
3488—Lewis-Shepard Co., 125 Walnut St., Watertown Station, Boston, Mass.
3489—Libbey-Owens-Ford Glass Co., Nicholas Bldg., Toledo, Ohio.
3492—Liberty Engineering Corp., 9 Elm Ave., Mt. Vernon, N. Y.
3493—Liberty Foundries Co., 23rd Ave. & Tenth St., Rockford, Ill.
3495—Lidseen, Inc., Gustave, 832 S. Central Ave., Chicago, Ill.
3497—Liggett Spring & Axle Co., Monongahela, Pa.
3498—Light Mfg. & Foundry Co., Queen St., Pottstown, Pa.
3500—Lima Sheet Metal Products Co., Lima, Ohio.
3502—Lincoln Brass Works, 2067 12th St., Detroit, Mich. Adv. p. 105.
3503—Lincoln Mfg. Co., Connersville, Ind.
3504—Lincoln Motor Co. Div. of Ford Motor Co., Detroit, Mich.
3505—Lincoln-Schlueter Machinery Co., 219 W. Grand Ave., Chicago, Ill.
3507—Linde Air Products Co., 30 E. 42nd St., New York, N. Y.
3507a—Linderme Tube Co., 1291 E. 53rd St., Cleveland, Ohio.
3508—Lindsay, McMillan Co., 93 S. Water St., Milwaukee, Wis.
3509—Linendoll Corp., 228 N. La Salle St., Chicago, Ill.
3510—Link-Belt Co., Indianapolis, Ind. Adv. p. 94.
3511a—Linn Trailer Corp., 433 Chestnut St., Oneonta, N. Y.
3512—Lion Chain Company, 3124 W. 51st St., Chicago, Ill. Adv. p. 42.
3512a—Lipe, Inc., W. C., 208 S. Geddes St., Syracuse, N. Y.
3513—Lipman Pump Wks., 2310 11th St., Rockford, Ill.
3514—Lipschultz Bros., 155 E. Sixth St., St. Paul, Minn.
3515—Liquidometer Corp., Skillman Ave. at 37th St., Long Island City, N. Y.
3516—Liquid Veneer Corp., 822 Liquid Veneer Bldg., Buffalo, N. Y. Adv. p. 49.
3518—Lisle Mfg. Co., 813 E. Main St., Clarinda, Iowa,
3519—List Mfg. Co., E. J., Main & Adams Sts., Havana, Ill.
3520—Lite-Products Corp., 1219 S. Michigan Blvd., Chicago, Ill.
3521a—Little Giant Products, Inc., 1530 N. Adams St., Peoria, Ill.
3523—Livingston Co., 161 Day St., New Haven, Conn.
3526—Lloyd Mfg. Co., E. E., 416 N. Main St., Maryville, Mo.
3528—Lockport Cotton Batting Co., 304 Elmwood Ave., Lockport, N. Y.
3529—Locktite Patch Co., 4196 Bellevue Ave., Detroit, Mich.
3532—Lodge & Shipley Machine Tool Co., 3055 Colerain Ave., Cincinnati, Ohio.
3533—Logan Co., 201 E. Buchanan St., Louisville, Ky.
3534—Logan Gear Co., Westwood Ave., Toledo, Ohio. Adv. p. 102.
3537—Loock & Co., R. J., 343-45 N. Gay St., Baltimore, Md. Adv. p. 59.
3538—Lord Mfg. Co., 36 Penn Bldg., Erie, Pa.
3539—Lorentzen, H. K., 155 Leonard St., New York, N. Y.
3540—Lorenz Trunk Works, Inc., 211 First Ave., N., Minneapolis, Minn.
3541—Lorraine Corp., Div. Van Sicklen Corp., Elgin, Ill.
3542—Los Angeles Rubber Stamp Co., 1500 S. Los Angeles St., Los Angeles, Calif.
3543—Los Angeles Spring & Forge Co., 1948 S. Los Angeles St., Los Angeles, Calif.
3543a—Losbough-Jordan Tool & Machine Co., Elkhart, Ind.
3544—Losee Motor Products Co., Hebron, Ill.
3545—Lothrop Co., Frank B., River St., South Acton, Mass.
3546—Louden Machinery Co., 1101 West Ave., Fairfield, Iowa.
3547—Louisville Electric Mfg. Co., 31st & Magazine Sts., Louisville, Ky.
3549—Lourie Mfg. Co., 565 Washington Blvd., Chicago, Ill.
3553—Lowville Machine & Vise Co., Lowville, N. Y.
3554—Lubricating Devices Co., 2164 Sacramento St., Los Angeles, Calif.
3555—Lucas & Co., John, 322 Race St., Philadelphia, Pa.
3556—Luce Mfg. Co., 614 Delaware St., Kansas City, Mo.
3558—Luedinghaus-Espenschied Wagon Co., 1721 N. Broadway, St. Louis, Mo.
3559—Lufkin-Rule Co., Hess Ave., Saginaw, Mich.
3561—Lundquist Tool & Mfg. Co., 144 Green St., Worcester, Mass.
3563—Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati, Ohio.
3563a—Lunsford Mfg. Co., 2021 S. Michigan Ave., Chicago, Ill.
3564—Lupton's Sons Co., David, 5-130 General Motors Bldg., Detroit, Mich.
3566—Lux Clock Mfg. Co., 95 Johnson St., Waterbury, Conn. (Sole distributors, De Luxe Clock & Mfg. Co., 1107 Broadway, New York, N. Y.)
3567—Lycoming Mfg. Co., Olive St. & N. C. Ry., Williamsport, Pa.
3569—Lyon Cover Co., Div. of Houdaille-Hershey Corp., 2660 E. Grand Blvd., Detroit, Mich.
3570—Lyon Iron Works, Greene, N. Y.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

3571—Lyon Metal Products, Inc., Aurora, Ill.
3573—Lyons Storage Battery Co., 355 Cortland St., Bellville, N. J.

Mc

3702—McAleer Mfg. Co., 7401 Lyndon Rd., Detroit, Mich.
3702a—McAllister Co., H. S., 549 W. Washington Blvd., Chicago, Ill.
3705—McCarron Corp., W. E., 2639 Milwaukee Ave., Chicago, Ill.
3706—McClaren Rubber Co., W. Palmer St., Charlotte, N. C.
3708—McConnell Mfg. Co., 190 Emmet St., Newark, N. J.
3709—McCord Radiator & Mfg. Co., 2587 E. Grand Blvd., Detroit, Mich.
3710—McCreary Tire & Rubber Co., 15th & School Sts., Indiana, Pa.
3713—McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
3714—McDougall-Butler Co., 24 Evans St., Buffalo, N. Y.
3715—McFarlane & Co., H., 322 S. Green St., Chicago, Ill.
3717—McGill Metal Co., Valparaiso, Ind.
3718—McGrew Machine Co., 2124 Y St., Lincoln, Neb.
3719—McHaig-Hatch, Inc., Ontario & Skillen Sts., Buffalo, N. Y.
3720—McKane-Lins Co., 81 E. Wisconsin Ave., Milwaukee, Wis.
3724—McKinnon Dash Co., 252 Amherst St., Buffalo, N. Y.
3725—McLanathan & Son, F. W., Lawrence, Mass.
3727—McNutt, Inc., Wm. H., 83 Chambers St., New York, N. Y.
3728—McQuay-Norris Mfg. Co., Dept. H, Cooper & Southwest Aves., St. Louis, Mo. Adv. p. 113.
3730—McSavaney Co., 51 Walnut St., Springfield, Ohio.

M

3750—M. & H. Novelty Co., Dept. A, 1466 W. 28th St., Los Angeles, Calif.
3752a—Macbeth-Evans Glass Co., Charleroi, Pa.
3753—Maccar Truck Co., Gilligan St., Scranton, Pa.
3754—MacDonald Motors, Inc., Fifth & Harrison Sts., San Francisco, Calif.
3755—Machine Specialty Co., 1200 N. Main St., Ann Arbor, Mich. (Sole distributors, Precision Parts Co., 202 E. Washington St., Ann Arbor, Mich.)
3756b—MacLean-Fogg Lock Nut Co., 2649 N. Kildare Ave., Chicago, Ill.
3759—Maginnis, Inc., Earl A., 121 W. 35th St., Los Angeles, Calif.
3760—Magnavox Co., 4250 Horton St., Oakland, Calif.
3762—Magnolia Metal Co., 75 West St., New York, N. Y.
3764—Maine Steel Products Co., South Portland, Me.
3765—Majestic Metal Specialties, Inc., 342 W. 14th St., New York, N. Y.
3765a—Malco Div. of Trico Products Corp., 817 Washington St., Buffalo, N. Y.
3766—Malis Supply Co., 421 Arch St., Philadelphia, Pa.
3767—Malleable Iron Fittings Co., Branford, Conn.
3768—Mallory Electric Corp., Woodruff & Wakeman Sts., Toledo, Ohio.
3769—Mall Tool Co., 7740 S. Chicago Ave., Chicago, Ill.
3771—Manhattan Insulated Wire Co., 17-23 W. 60th St., New York, N. Y. Adv. Inside Front Cover.
3772—Manhattan Mirror Works, 46 Wooster St., New York, N. Y.
3773—Manheim Mfg. & Belting Co., Manheim, Pa.
3774—Manley Mfg. Co., 929 Connecticut Ave., Bridgeport, Conn.
3775—Mann Mfg. Co., Dwight Way at Ninth St., Berkeley, Calif.
3776—Mansfield, J. F., 15 Maiden Lane, New York, N. Y.
3777—Mansfield Lock Washer Co., 9771 French Road, Detroit, Mich.
3778—Mansfield Tire & Rubber Co., Newman St., Mansfield, Ohio.
3779—Manufacturers' Auto Equipment Co., 995 E. Green St., Pasadena, Calif.
3780—Manufacturer's Belt Hook Co., 1315-21 W. Congress St., Chicago, Ill. Adv. p. 120.
3781—Manufacturers Brush Co., 12601 Elmwood Ave., Cleveland, Ohio.
3782—Manufacturers Surplus Outlet Co., 542 S. Dearborn St., Chicago, Ill. Adv. p. 87.
3782b—Manufacturing Equipment & Engineering Co., Framingham, Mass.
3783—Marathon Electric Mfg. Co., 31 Island St., Wausau, Wis.
3787—Marion Basket Co., 100 Marion St., Marion, Ind.
3790—Marko Storage Battery Co., 100 Varick Ave., Brooklyn, N. Y.
3792—Marmon Motor Car Co., 1101 W. Morris St., Indianapolis, Ind.
3793—Marnall Steel Products, Inc., 501 Fifth Ave., New York, N.Y.
3794—Marquette Mfg. Co., 218 S. Wabasha St., St. Paul, Minn.
3795—Marschke Grinder Div. of Black & Decker Mfg. Co., 1815 Madison Ave., Indianapolis, Ind.
3797—Marshall Asbestos Corp., Green Island, Troy, N. Y.
3798—Marshall Electric Co., McNaughton & Myrtle Sts., Elkhart, Ind.
3800—Marshalltown Mfg. Co., Marshalltown, Iowa.
3801—Martin-Parry Corp., W. Market St., York, Pa.
3803—Marvel Carbureter Co., 2300 St. John St., Flint, Mich. Adv. p. 95.
3805—Marvel Products Co., 4227 Lorain Ave., Cleveland, Ohio.
3806—Marvin Mfg. Co., W. B., 600 Miami St., Urbana, Ohio.
3809—Maryland Mfg. Co., 1915 Ashland Ave., Baltimore, Md.
3811—Masland & Sons, C. H., Carlisle, Pa. (Sole distributors, W. & J. Sloane, 577 Fifth Ave., New York, N. Y.)
3813—Mason Tire & Rubber Corp., 803 Lake St., Kent, Ohio.
3814—Massasoit Mfg. Co., 136 Pocasset St., Fall River, Mass.
3815—Master Electric Co., Linden & Master Aves., Dayton, Ohio.
3816—Master Lock Co., 926 Chestnut St., Milwaukee, Wis.
3817—Master Products Corp., 1340 Howard St., San Francisco, Calif. (Sole distributors Brake-Rite Co., 1340 Howard St., San Francisco, Calif.)
3818—Master Products Corp., 332 Broadway, Denver, Colo.
3819—Matchless Electric Co., 564 W. Randolph St., Chicago, Ill.
3820—Mathes Co., G., 3100 N. Broadway, St. Louis, Mo.
3822—Matthews & Co., Jas. H., 2630 Forbes Field, Pittsburgh, Pa.
3823—Matthews Corp., W. N., 3722 Forest Park Blvd., St. Louis, Mo.
3824—Matthiessen & Hegeler Zinc Co., LaSalle, Ill.
3828a—Mayer Co., Geo. J., 36 S. Meridian St., Indianapolis, Ind.
3829—Mayer Mfg. Corp., 1436 W. Randolph St., Chicago, Ill.
3830—Mayhew Steel Products, Shelburne Falls, Mass.
3831—Mayo Co., Spring Lane, Portsmouth, Ohio.
3832—May Trailers, Inc., Shreveport, La.
3833—Mead-Morrison Mfg. Co., 446 Prescott St., East Boston, Mass.
3836—Mears-Kane-Ofeldt, Inc., 1907 E. Hagert St., Philadelphia, Pa.
3837—Mechanical Devices Co., Bell St., Bloomington, Ill.
3838—Mechanics Universal Joint Co., 19th Ave. & Ninth St., Rockford, Ill.
3840—Medart Mfg. Co., Fred, Potomac & De Kalb Sts., St. Louis, Mo.
3841—Medina Rubber Co., Medina, Ohio.
3842—Meili-Blumberg Co., 1615 Wisconsin Ave., New Holstein, Wis.
3842a—Meisel Press Mfg. Co., 944 Dorchester Ave., Boston 25, Mass.
3843—Mercedes Benz Co., 247 Park Ave., New York, N. Y.
3844—Mercer Rubber Co., Hamilton Square, N. J.
3845—Mercury Mfg. Co., 4118 S. Halsted St., Chicago, Ill.
3846—Merit Equipment Corp., 6616 Morgan Ave., Cleveland, Ohio.
3848—Merz Engineering Co., 937 N. Capitol Ave., Indianapolis, Ind.
3849—Mesinger Mfg. Co., H. & F. 432 Austin Pl., New York, N. Y.
3850—Mesker & Co., Geo. L., First & Ingle Sts., Evansville, Ind. Adv. p. 101.
3853—Metal Hose & Tubing Co., 233 Tillary St., Brooklyn, N. Y.
3854—Metallite Corp., 20 N. High St., Akron, Ohio (Sole distributors, Springulators, 614 Second National Bldg., Akron, Ohio.)
3855—Metal Products Co., 406 S. W. Ninth St., Des Moines, Iowa.
3856—Metal Specialties Mfg. Co., 3200 Carroll Ave., Chicago, Ill.
3857—Metal Stamping Co., 14th St. & Boulevard, Long Island City, N. Y.
3858—Metal Stamping & Mfg. Co., 16816 Waterloo Rd., Cleveland, Ohio.
3859—Metalweld, Inc., 26th St. & Hunting Park Ave., Philadelphia, Pa.
3860—Meteor Motor Car Co., South Ave., Piqua, Ohio.
3861—Metropolitan Body Co., 430 Grand St., Bridgeport, Conn.
3862—Metropolitan Camp Goods Co., 105 Marble St., Athol, Mass.
3865—Meyer Automatic Door, Inc., Milford, Ill.
3868—Meyercord Co., 120 S. La Salle St., Chicago, Ill.
3868a—Meyer Thread Works, John C., 1495 Middlesex St., Lowell, Mass.
3869—Meyer & Wenthe, 30 S. Jefferson St., Chicago, Ill.
3870—Michaels & Mourre, 514 W. 53rd St., New York, N. Y.
3872—Michiana Products Corp., Sheet Steel Products Div., Michigan City, Ind.
3873—Michigan Engine Valve Co., 437 W. Columbia St., Detroit, Mich.
3874—Michigan Metal Products Co., 21st St. & M. C. R. R., Battle Creek, Mich.
3876—Michigan Steel Casting Co., Nelson Wheel Div., 1986 Guoin St., Detroit, Mich.
3877—Michigan Tool Co., 147 Jos. Campau Ave., Detroit, Mich.
3879—Micromatic Hone Corp., 7401 Dubois St., Detroit, Mich.
3882—Midland Specialties Co., 536 W. 25th St., Chicago, Ill.
3883—Mid-States Gummed Paper Co., 2433 Robey St., Chicago, Ill.
3885—Mid-West Glass Co., 1235 Buck St., Cincinnati, Ohio.
3887—Mielke Mfg. & Sales Co., New Hampton, Iowa.
3890—Miho Co., 717 Sycamore St., Cincinnati, Ohio. (Sole distributors, Ohio Parts Co., Ohio Bldg., 2735 Colerain Ave., Cincinnati, Ohio.)
3891—Milburn Co., Alexander, 1416 W. Baltimore St., Baltimore, Md.
3891a—Miley Co., L. J., 1462 S. Michigan Ave., Chicago, Ill.
3892—Milhander Rubber Co., 2109 S. San Pedro St., Los Angeles, Calif.
3893—Millen Mfg. Co., 7 Water St., Boston, Mass.
3894—Miller, Chas. E. (Anderson Rubber Works), 1400 S. Meridian St., Anderson, Ind.
3895—Miller Auto Bed & Mfg. Co., 4001 E. Tenth St., Oakland, Calif.
3897—Miller & Co., Clyde L., 1544 Cahuenga Ave., Los Angeles, Calif.
3899—Miller Co., J. Walter, 411 E. Chestnut St., Lancaster, Pa.
3901—Miller, Inc., Harry A., 1348 Venice Blvd., Los Angeles, Calif.
3903—Miller Rubber Co. of N. Y., 1347 S. High St., Akron, Ohio.
3904—Millersburg Reamer & Tool Co., Millersburg, Pa. Adv. p. 159.
3905—Millers Falls Co., Millers Falls, Mass.
3907a—Miller Tool & Mfg. Co., 1725 16th St., Detroit, Mich.
3908—Miller Wagon Co., Calmar, Iowa.
3910—Milwaukee Air Power Pump Co., 8 Keefe Ave., Milwaukee, Wis.
3911—Milwaukee Bearings Co., Massachusetts & Steel Sts., Indianapolis, Ind. (Sole distributors, King Quality Products Co., Massachusetts & Steel Sts., Indianapolis, Ind.)
3912—Milwaukee Brush Mfg. Co., 770 13th St., Milwaukee, Wis.
3913—Milwaukee Cylinder Grinding Co., Humboldt & Concordia Aves., Milwaukee, Wis.
3914—Milwaukee Forge & Machine Co., 340 Oklahoma Ave., Milwaukee, Wis.
3914a—Milwaukee Gear Co., 1222 Third St., Milwaukee, Wis.
3915—Milwaukee Motor Products, Inc., 760 30th St., Milwaukee, Wis.
3916—Milwaukee Tack Co., 27th & Cleveland Aves., Milwaukee, Wis.
3917—Milwaukee Tank Works, Fratney & Nash Sts., Milwaukee, Wis.
3918—Milwaukee Tool & Forge Co., Ninth & Marion Sts., South Milwaukee, Wis.
3921—Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn.
3922—Mirro-Like Mfg. Co., Queens Blvd. & Buckley St., Long Island City, N. Y.
3925—Mitchell-Rand Mfg. Co., 18 Vesey St., New York, N. Y.
3926—Mitchell Specialty Co., Shelmire & Edmond Sts. (Holmesburg), Philadelphia, Pa.
3928a—Modern Engineering Co., 3411 Pine Blvd., St. Louis, Mo.
3929—Modine Mfg. Co., 17th St. & Racine Ave., Racine, Wis.
3930—Moebes & Hoffman Mfg. Co., Vallejo, Calif.
3931—Mogul Storage Battery Co., 409 Ave. A, Sterling, Ill.
3932—Mohawk Carpet Mills, Amsterdam, N. Y.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

3934—Mohawk Rubber Co., 1235 Second St., Akron, Ohio.
3936—Moline Hydraulic Jack Co., 2001 First Ave., Moline, Ill.
3937—Moline Mfg. Corp., 2430 Third Ave., Moline, Ill.
3938—Moller Motor Car Co., M. P., Pope Ave., Hagerstown, Md.
3942—Mona Motor Oil Co., 12th Ave. & Sixth St., Council Bluffs, Iowa.
3943—Monarch Bumper Mfg. Co., 1622 Euclid Ave., E., Detroit, Mich.
3944—Monarch Cap Screw & Mfg. Co., 3446 E. 65th St., Cleveland, Ohio.
3946—Monarch Governor Co., 1847 W. Bethune Ave., Detroit, Mich.
3948—Monarch Insulated Wire Corp., 250 W. 54th St., New York, N.Y. Adv. p. 91.
3949—Monarch Rubber Co., Hartville, Ohio.
3950—Monarch Tool & Machinery Co., 4450 Fifth Ave., Chicago, Ill.
3951—Monark Battery Co., 125 N. Peoria St., Chicago, Ill.
3954—Monmouth Products Co., 882 E. 72nd St., Cleveland, Ohio. Adv. p. 19.
3955—Monocraft Products Co., 137 Fifth Ave., New York, N. Y.
3956—Monogram Lens Corp., 11-236 General Motors Bldg., Detroit, Mich.
3957—Monroe-Acme Co., 2308 W. Harrison St., Chicago, Ill.
3958—Monroe Auto Equipment Co., 1411 E. First St., Monroe, Mich.
3959—Monroe Paper Products Co., Monroe, Mich.
3962—Montpelier Mfg. Co., Montpelier, Ohio.
3964—Moon Motor Car Co., 4400 N. Main St., St. Louis, Mo.
3965—Moore Body Co., Schiller & Division Sts., Reading, Pa.
3966—Moore Co., H. L., Cochranton, Pa.
3967—Morand Cushion Wheel Co., 800 S. May St. Chicago, Ill.
3968—Moreland Motor Truck Co., E. San Fernando Rd., Burbank, Calif.
3974—Morris Co., George W., 427 Lake Ave., Racine, Wis.
3975—Morris Co., J. Leslie, 924 Venice Blvd., Los Angeles, Calif.
3978—Morrison & Co., L. E., 27 W. Washington St., Indianapolis, Ind.
3979—Morrison Jack Co., 108 E. Patterson St., Alliance, Ohio.
3982—Morse Chain Co., Ithaca, N. Y. Adv. p. 94.
3983—Morse Co., L. E., 205 N. Hyde Park Ave., Scranton, Pa.
3985—Morse Mfg. Co., 402 S. Franklin St., Syracuse, N. Y.
3986—Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass. Adv. p. 158.
3986a—Morton & Brett, 811 E. 23rd St., Indianapolis, Ind.
3987—Morton Mfg. Co., Key Dept., Broadway & Hoyt St., Muskegon Heights, Mich. Adv. p. 164.
3988—Moss & Co., Henry, 113 53rd St., Brooklyn, N. Y.
3989—Moss Tool Mfg. Co., Wichita, Kan.
3992—Moto Meter Gauge & Equipment Corp., 15 Wilbur Ave., Long Island City, N. Y. Adv. p. 65.
3993—Motor-Bed Mfg. Co., 616 S. Michigan Ave., Chicago, Ill. Adv. p. 78.
3995—Motor City Filling Pad Co., 4739 Woodward Ave., Detroit, Mich.
3996—Motor City Spring Co., 1821 Trombly Ave., Detroit, Mich.
3998—Motor Improvements, Inc., 385 Frelinghuysen Ave., Newark, N. J.
3999—Motor Industries Co., La Crosse, Wis.
4002—Motor Suit Mfg. Co., 816 Central St., Kansas City, Mo. Adv. p. 87.
4004—Motor Transit Co., 220 E. Market St., Los Angeles, Calif.
4005—Motor Wheel Corp., Lansing, Mich. Adv. p. 139.
4007—Motor X Ray Co., 1042 E. 79th St., Chicago, Ill.
4009—Mountain Chemical Co., 1025 13th St., Denver, Colo.
4010—Muehlhausen Spring Co., Logansport, Ind.
4011—Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich.
4012—Mueller Electric Co., 1583 E. 31st St., Cleveland, Ohio.
4013—Mueller Engineering Works, 16th St. at Junction Ave., Racine, Wis.
4014—Mulconroy Co., 54th & Jefferson Sts., Philadelphia, Pa.
4016—Mullins Body & Tank Co., 47th Ave. & Rogers St., Milwaukee, Wis.
4018—Multibestos Co., South St., Walpole, Mass. Adv. p. 108.
4019—Multispark Ignition Co., 713 W. Eighth St., Los Angeles, Calif.
4020—Muncie Gear Co., 405 N. Vine St., Muncie, Ind.
4020a—Muncie Products Div. (General Motors Corp.), 1220 W. Eighth St., Muncie, Ind.
4021—Mundet & Son, L., 65 S. 11th St., Brooklyn, N. Y.
4022—Mundo Products, Inc., 229 E. 42nd St., New York, N. Y.
4023—Mundt & Sons, Chas., 51 Fairmount Ave., Jersey City, N. J.
4025—Muntz Chemical Co., 171 Main St., Greenville, Pa.
4027—Murphy Co., Walter M., 55 N. Vernon Ave., Pasadena, Calif.
4027a—Murray Corp. of America, 1424 Aberle St., Detroit, Mich.
4028—Murray Rubber Co., N. Clinton Ave. Trenton, N. J.
4029—Musgrave Mfg. Co., Pittsburg, Kan.
4030—Muskegon Motor Specialties Co., Seventh & Larch Sts., Muskegon, Mich.
4031—Muskogee Iron Works, Automotive Div., Frankfort & Spaulding Sts., Muskogee, Okla.
4034—Muther Mfg. Co., 44 Binford St., Boston, Mass. Adv. p. 154.
4036—Myers & Bros Co., F. E., 10 Orange St., Ashland, Ohio.
4037—Myers Mfg. Co., Chas. A., 2915 Detroit Ave., Cleveland, Ohio.

N

4201—Nabors Co., W. C., Mansfield, La.
4202—Nacco Mfg. Co., 1482 Clara Ave., St. Louis, Mo.
4203—Naceskid Service Chain Co., Third & Schenck Sts., Trenton, N. J.
4205—Napier Saw Works, 22 Cottage St., Middletown, N. Y.
4207—Nash Motors Co., Edward & Parks Sts., Kenosha, Wis.
4209—Nassau Sponge Co., 124 W. Kinzie St., Chicago, Ill.
4211—National Acme Co., 170 E. 131st St., Cleveland, Ohio.
4214—National Alloys Co., 2118 Woodbridge St., E. Detroit, Mich.
4215—National Aluminum Co., 1912 Frederick St., Racine, Wis.
4218—National Automotive Fibres, Inc., Railroad Ave. & Kennedy St., Oakland, Calif.
4220—National Auto Top & Mfg. Co., 3900 Moneta Ave., Los Angeles, Calif.
4221—National Battery Co., 1704 Roblyn Ave., St. Paul, Minn.
4222—National Brake & Electric Co., Belleview Pl. & River, Milwaukee, Wis.
4222a—National Bronze & Aluminum Foundry Co., E. 88th St. & Laisy Ave., Cleveland, Ohio.
4223—National Carbon Co., 30 E. 42nd St., New York, N. Y.
4224—National Cash Register Co., Main & K Sts., Dayton, Ohio.
4225—National Chemical & Mfg. Co., 3617 Wall St., Chicago, Ill.
4227—National Colortype Co., Lafayette & Grandview Aves., Bellevue, Ky.
4228—National Copper & Smelting Co., 12120 Euclid Ave., Cleveland, Ohio.
4230—National Electric Corp., 216 High St., Newark, N. J.
4233a—National-Erie Co. (Williams Foundry & Machine Div.), Erie, Pa.
4235—National Grinding Wheel Co., Erie Ave. & Walck Rd., North Tonawanda, N. Y.
4236—National-Harris Wire Co., 195 Verona Ave., Newark, N. J.
4237—National Lamp Works of General Electric Co., Nela Park, Cleveland, Ohio.
4238—National Lead Co., 111 Broadway, New York, N. Y.
4239—National Lock Co., 18th Ave. & Seventh St., Rockford, Ill.
4240—National Lock Washer Co., 40 Hermon St., Newark, N. J.
4241—National Machine & Tool Co., 801 S. Water St., Jackson, Mich.
4242—National-Marshall Spring Corp., Div. of Nachman Spring-Filled Corp., Front Ave. & Wealthy St., Grand Rapids, Mich.
4243—National Motor Bearing Co., 460 Natoma St., San Francisco, Calif.
4244—National Motors Mfg. Co., 464 Colt St., Irvington, N. J.
4245—National Oxygen Co., 29 S. La Salle St., Chicago, Ill.
4246—National Recording Pump Co., Kiser St. & Pennsylvania Ave., Dayton, Ohio.
4248—National Rivet & Mfg. Co., Foot of Park Pl., Milwaukee, Wis.
4249—National Rubber Machinery Co., Akron Rubber Mold Plant, 917 Sweitzer Ave., Akron, Ohio.
4250—National Rubber Machinery Co., DeMattia Div., Wellington St. & Getty Ave., Clifton, N. J.
4252—National Sanding Machine Co., 4353 Avondale Ave., Chicago, Ill.
4253—National Scale Corp., 9 Montgomery St., Chicopee Falls, Mass.
4254—National Screw & Mfg. Co., 2440 E. 75th St., Cleveland, Ohio.
4255—National Sewing Machine Co., State & Meadow Sts., Belvidere, Ill.
4258—National-Standard Co., Eighth & Howard Sts., Niles, Mich.
4259—National Steel Products Co., 1611 Crystal Ave., Kansas City, Mo. Adv. p. 35.
4260—National Store Specialty Co., Bareville, Pa.
4261—National Tool Co., W. 112th St. & Madison Ave., Cleveland, Ohio.
4262—National Trunk Corp., Hamilton & Railroad Sts., Racine, Wis.
4263—National Twist Drill & Tool Co., 6522 Brush St., Detroit, Mich.
4264—National Umbrella Frame Co., Penn St. & Belfield Ave., Philadelphia, Pa. Adv. p. 125.
4265—National Used Car Market Report, Inc., 1315 S. Michigan Ave., Chicago, Ill. Adv. p. 62.
4266—National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington, Del.
4266a—Naylor Bros., 2 N. Water St., Peekskill, N. Y.
4269—Nedco Co., 50 South Ave., Natick, Mass.
4270—Needham, Claude C., 146 W. 17th St., Los Angeles, Calif.
4271—Neider Co., F. A., Seminary Ave., Augusta, Ky.
4273—Nelson Iron Works, Inc., N. P., Bloomfield Ave., Passaic, N. J.
4273a—Nelson-LeMoon Truck Co., 849 N. Kedzie Ave., Chicago, Ill.
4275—Ness Bros. Mfg. Co., Broad & Philadelphia Sts., York, Pa.
4277—Nestler Rubber Fusing Co., 245 W. 55th St., New York, N. Y.
4279a—Neveroil Bearing Co., 29 Foundry St., Wakefield, Mass.
4280—Never Rust Mfg. Co., 1771 E. 18th St., Brooklyn, N. Y.
4282—New Albany Machine Mfg. Co., E. Tenth & Water Sts., New Albany, Ind.
4284—New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
4285—New Comer Trailer Mfg. Co., 1119 Santa Fe Ave., Los Angeles, Calif.
4286—New Departure Mfg. Co., 269 N. Main St., Bristol, Conn. Adv. p. 81.
4287—New Doty Mfg. Co., 302 N. Main St., Janesville, Wis.
4288—New England Auto Products Corp., Pottstown, Pa.
4288a—New England Box Co., 173 Main St., Greenfield, Mass.
4288b—New England Pressed Steel Co., Washington Ave., Natick, Mass.
4290—New England Truck Co., 80 Lunenburg St., Fitchburg, Mass.
4292—New Haven Clock Co. (Automobile Clock Div.), 133 Hamilton St., New Haven, Conn. Adv. Opposite Title Page.
4296—Newman Mfg. Co., Norwood Sta., Cincinnati, Ohio.
4297—New Process Gear Corp., 500 Plum St., Syracuse, N. Y.
4299—Newton Corp., E. C., 635 W. Ave. 26, Los Angeles, Calif.
4300—New Ulm Mfg. Co., New Ulm, Minn. (Sole distributors, Truth Tool Co., 711 S. Front St., Mankato, Minn.)
4301—New Way Spray Gun Co., 5713 Euclid Ave., Cleveland, Ohio.
4302—New York Belting & Packing Co., 91 Chambers St., New York, N. Y.
4303—New York Blower Co., 3155 Shields Ave., Chicago, Ill.
4304—New York Coil Co., Mont Clare, Pa.
4305—New York Rubber Corp. (Airubber Dept.), Beacon, N. Y.
4306—Ney Mfg. Co., 1006 High Ave., S. W., Canton, Ohio.
4308—Niagara Fabric Mfg. Co., 47 Greene St., New York, N. Y.
4309—Niagara Machine & Tool Works, 683 Northland Ave., Buffalo, N. Y.
4310—Niagara Motor Corp., 219 Niagara Blvd., Dunkirk, N. Y.
4311—Niagara Searchlight Co., 800 Ferry Ave., Niagara Falls, N. Y.
4312—Nice Ball Bearing Co., 30th St. & Nicetown Lane, Philadelphia, Pa.
4313—Nice Co., Eugene E., 268 S. Second St., Philadelphia, Pa.
4314—Nicholson File Co., 23 Acorn St., Providence, R. I.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

4315—Nichol-Straight Foundry Co., 3174 Archer Ave., Chicago, Ill.
4316—Niehaus Co., Jos., 341 W. Fourth St., Cincinnati, Ohio. (Importers.)
4317—Niehoff & Co., C. E., 230 W. Superior St., Chicago, Ill. Adv. p. 46.
4319—Nikolas & Co., G. J., 1227 Van Buren St., Chicago, Ill.
4320—Niles Steel Tank Co., Niles, Mich.
4321—Nil Melior, Inc., 100 W. 56th St., New York, N. Y. (Importers.) Adv. p. 66.
4323—Nixon Gear & Machine Co., 200 Oxford St., Syracuse, N. Y.
4324—Nixon Nitration Works, Nixon, N. J.
4325—Noble Motor Truck Corp., Kendallville, Ind.
4326—Noblitt-Sparks Industries, Inc., Ninth Floor, Spink Bldg., 603 E. Washington St., Indianapolis, Ind.
4327—Noera Mfg. Co., 230 Grand Ave., Waterbury, Conn.
4328—Noisom Auto-Compass, Inc., 321 Michigan St., South Bend, Ind.
4332—Norbom Engineering Co., Darby, Pa. (Sole distributors, Eagle Machine Co., 24 N. Noble St., Indianapolis, Ind.)
4335—Norma-Hoffmann Bearings Corp., Stamford, Conn. Adv. p. 225.
4337—North American Smelting Co., 900 W. Thompson St., Philadelphia, Pa.
4338—North Bros. Mfg. Co., American St. & Lehigh Ave., Philadelphia, Pa.
4340—North East Appliance Corp., 379 Lyell Ave., Rochester, N. Y.
4342—Northern Rubber Co., Akron, Ohio.
4343—North Ridge Brush Co., Inc., Henney Bldg., Freeport, Ill.
4346—North Wales Machine Co., Elm Ave. & Center St., North Wales, Pa.
4347—Northwestern Chemical Co., 785 State St., Marietta, Ohio.
4348a—Northwestern Machine & Tool Co., 314 Third Ave., South Minneapolis, Minn.
4349—Northwestern Mfg. Co., 480 Clinton St., Milwaukee, Wis.
4350—North Western Steel Products Co., 4545 W. Homer St., Chicago, Ill.
4352—Norton Electrical Instrument Co., 81 Hilliard St., Manchester, Conn.
4353—Norwalk Auto Parts Co., 4 S. Foster Ave., Norwalk, Ohio.
4354—Norwalk Tire & Rubber Co., Belden Hill Ave., Norwalk, Conn.
4358—Novelty Trimming Works, 18 E. 16th St., New York, N. Y.
4360—Nu-Cord Tire & Rubber Co., Penn, Pa.
4362—Nurre Companies, Bloomington, Ind.

O

4500—O. B. Electric Truck, Inc., 101 Jane St.., New York, N. Y.
4501—O. K. Machine Co., Fairfield Ave. & Poplar St., Ft. Wayne, Ind.
4503—Oakes Products Corp., North Chicago, Ill.
4504—Oakite Products, Inc., 22 Thames St., New York, N. Y.
4505—Oakland Motor Car Co., 240 Oakland Ave., Pontiac, Mich.
4506—Oberdorfer Brass Co., M. L., 140 Thompson Rd., East Syracuse, N. Y.
4507—O'Brien Mfg. Co., Joseph F., 47 W. 63rd St., New York, N. Y.
4508—O'Brien Varnish Co., Johnson & Washington Sts., South Bend, Ind.
4514—Oesterlein Machine Co., 3301 Colerain Ave., Cincinnati, Ohio.
4515—Ohio Art Co., Bryan, Ohio.
4517—Ohio Carbon Co., 12508 Berea Rd., Cleveland, Ohio.
4518—Ohio Electric Mfg. Co., 5900 Maurice Ave., Cleveland, Ohio.
4519—Ohio Grease Co., Loudonville, Ohio.
4520—Ohio Hammered Piston Ring Co., 2401 Superior Ave., N. W., Cleveland, Ohio. Adv. p. 113.
4522—Ohio Nut & Bolt Co., 600 Front St., Berea, Ohio.
4523—Ohio Parts Co., Ohio Bldg., 2735 Colerain Ave., Cincinnati, Ohio.
4524—Ohio Piston Co., 5339 St. Clair Ave., Cleveland, Ohio.
4525—Ohio Rubber Co., Willoughby, Ohio.
4527—Ohio Valley Oxygen Co., 934 Kenyon Ave., Cincinnati, Ohio.
4528—Ohmer Fare Register Co., Bolender & Big Four R. R., Dayton, Ohio.
4529—Ohmlac Paint & Refining Co., 140 S. Dearborn St., Chicago, Ill.
4530—Oildraulic Lift Co., 2105 Sterick Bldg., Memphis, Tenn. (Sole distributors, Marquette Mfg. Co., 218 S. Wabasha St., St. Paul, Minn.)
4531—Oil Jack Co., Ampere, N. J.
4533—Okonite Co., 501 Fifth Ave., New York, N. Y.
4534—Oldberg Mfg. Co., Detroit, Mich. (Sole distributors, Associated Parts, Inc., Norwood at Hoag, Toledo, Ohio.)
4535—Olds Motor Works, Olds Ave., Lansing, Mich. Adv. p. 16.
4536—Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.
4537—Oliver Machinery Co., 1032 Coldbrook St., Grand Rapids, Mich.
4538—Omaha Folding Machine Co., 2009 Cuming St., Omaha, Neb.
4540—Omaha Steel Works, 48th & Leavenworth Sts., Omaha, Neb.
4541—Omaha Welding Co., 15th & Jackson Sts., Omaha, Neb.
4542—Onondaga Textile Mills, Inc., Cor. Smith & Trumbull Sts., New London, Conn.
4543—Opco Co., 1894 Niagara St., Buffalo, N. Y. Adv. p. 60.
4544—Orange Roller Bearing Co., 557 Main St., Orange, N. J.
4546—Orem Motor Protector Co., 2827 Calvert St., Baltimore, Md.
4547—Orr's Machine & Mfg. Co., Sixth & Alabama Sts., Okmulgee, Okla.
4549—Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.
4550—Osborn Mfg. Co., 5401 Hamilton Ave., N. E., Cleveland, Ohio.
4551—Oshkosh Auto Specialties Co., 809 Ninth St., Oshkosh, Wis.
4552—Oshkosh Motor Truck Mfg. Co., 23rd & Oregon Sts., Oshkosh, Wis.
4553—Oswego Tool Co., W. First & Schuyler Sts., Oswego, N. Y.
4555—Ottemiller Co., Wm. H., Pattison St. & M. & P. R. R., York, Pa.
4556—Otter Mfg. Co., 596 Broadway, New York, N. Y.
4557—Otwell Co., 17005 Fullerton St., Detroit, Mich.
4558—Out West Mfg. Co., 1180 Kalamath St., Denver, Colo.
4559—Overhead Door Corp., Hartford City, Ind.
4560—Overman Cushion Tire Co., 250 W. 54th St., New York, N. Y.
4561—Owen-Dyneto Corp., 1920 Park St., Syracuse, N. Y.
4565—Oxweld Acetylene Co., 205 E. 42nd St., New York, N. Y.

P

4600—P & C Hand Forged Tool Co., Portland, Ore.
4601—P & D Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y. Adv. p. 30.
4602—P-H Multi-Wheeler Co., Dept. D-10, 1907 Kishwaukee St., Rockford, Ill.
4603—Paasche Airbrush Co., 1909 Diversey Parkway, Chicago, Ill.
4604—Pacific Ball Bearing Co., 415 W. Pico St., Los Angeles, Calif.
4605—Pacific Metal Bearing Co., Div. of Federal-Mogul Co., 1710 Howard St., San Francisco, Calif.
4607—Pacific States Felt & Mfg. Co., 843 Howard St., San Francisco, Calif.
4609—Package Car Corp., Union Stock Yards, Chicago, Ill.
4610—Packard Electric Co., Warren, Ohio. Adv. p. 93.
4611—Packard Motor Car Co., 1580 E. Grand Blvd., Detroit, Mich.
4612—Paddock Cork Co., 1209 DeKalb Ave., Brooklyn, N. Y.
4613—Paf Mfg. Co., Greenville, Ill.
4613a—Paine & Williams Co., 4614 Prospect Ave., Cleveland, Ohio.
4614—Palm Bros. Decalcomania Co., South Norwood, Cincinnati, Ohio.
4615—Palmen Mfg. Co., Akron, Ohio.
4616—Palmer Asbestos & Rubber Corp., 2741 Clybourn Ave., Chicago, Ill.
4617—Pal-Weld Mfg. Co., First Ave., South & Lander Sts., Seattle, Wash.
4618—Pantasote Company, 250 Park Ave., New York, N. Y.
4619—Panyard Piston Ring Co., Getty St., Muskegon, Mich.
4620—Paragon Mfg. Co., Austin & Murray Sts., Newark, N. J.
4621—Paragon Mfg. Co., Hickory, N. C.
4622a—Park Chemical Co., Military & Vancouver Aves., Detroit, Mich.
4623—Parker Appliance Co., 10320 Berea Rd., Cleveland, Ohio.
4624—Parker Co., Chas., 48 Elm St., Meriden, Conn. Adv. p. 167.
4625—Parker-Kalon Corp., 200 Varick St., New York, N. Y.
4626—Parker, Stearns & Co., 286 Sheffield Ave., Brooklyn, N. Y.
4627—Parker Truck Co., 606 Linus St., Milwaukee, Wis.
4628—Parker & Waterman Mfg. Co., 1547 Venice Blvd., Los Angeles, Calif.
4629—Parker Wheel Co., 7700 Stanton Ave., Cleveland, Ohio.
4630—Parker White-Metal & Machine Co., 23rd St. & Pennsylvania Ave., Erie, Pa.
4632—Park Metalware Company, Thorn Ave., & B. R. & P. Tracks, Orchard Park, N. Y.
4634—Partridge, E. O., 2047 W. Lake St., Chicago, Ill.
4636—Paschall Oxygen Co., 73rd & Woodland Ave., Philadelphia, Pa.
4637—Patchetts & Carstensen, Inc., Newman, Calif.
4639—Pathfinder Accessories Co., 4831 Broadway, Cleveland, Ohio.
4640—Patriot Mfg. Co., Havelock, Neb.
4642—Paul & Co., J. C., 930 Roscoe St., Chicago, Ill.
4643—Peck Spring Co., 68 Broad St., Plainville, Conn. Adv. p. 72.
4644—Peck, Stow & Wilcox Co., 217-313 Center St., Southington, Conn. Adv. p. 160.
4646—Peerless Bearing Service Co., 342 N. Water St., Wichita, Kan.
4647—Peerless Chain Co., Front & Walnut Sts., Winona, Minn. (Sole distributors, Peerless Sales Corp., Front & Walnut Sts., Winona, Minn.)
4648—Peerless Cushion Wheel Co., 455 Seventh Ave., New York, N. Y.
4649—Peerless Machine Co., 1615 Racine St., Racine, Wis.
4650—Peerless Motor Car Corp., Quincy Ave. & E. 93rd St., Cleveland, Ohio.
4651—Peerless Novelty Co., First & Fulton Sts., Grand Haven, Mich.
4651a—Pekin Foundry & Mfg. Co., 228 Sabella St., Pekin, Ill.
4652—Penberthy Injector Co., 1242 Holden Ave., Detroit, Mich.
4653—Penn Brass & Copper Co., 1120 W. 18th St., Erie, Pa.
4654—Penn Metal Co., 675 Concord Ave., Cambridge, Mass.
4655—Penn Rivet Corp., Third & Huntingdon Sts., Philadelphia, Pa.
4656—Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia, Pa.
4657—Pennsylvania Gear & Machine Co., E. Tioga, Weikel & Janney Sts., Philadelphia, Pa.
4658—Pennsylvania Pump & Compressor Co., Easton, Pa.
4659—Pennsylvania Rubber Co. of America, Jeannette, Pa.
4661—Peoria Overhead Washer Co., 115 S. Jefferson St., Peoria, Ill.
4662—Pep Mfg. Company, 33 W. 42nd St., New York, N. Y. Adv. p. 172.
4662a—Pequot Wire Cloth Co., 142 Water St., South Norwalk, Conn.
4663—Perfect Circle Co., Hagerstown, Ind.
4663a—Perfect Fit Mfg. Co., E. Sixth & Madison Sts., Portland, Ore.
4665—Perfection Gear Co., 213 N. Morgan St., Chicago, Ill.
4666—Perfection Mfg. Co., 2701 N. Leffingwell Ave., St. Louis, Mo.
4668—Perfection Steel Body Co., Perfection Bldg., Galion, Ohio.
4669—Perfex Corporation, First & Oklahoma Aves., Milwaukee, Wis.
4670—Perfex Electric Co., 124 Southard Ave., Toledo, Ohio.
4672—Perlick Brass Co., R., 194 Reed St., Milwaukee, Wis.
4673—Permatex Co., Sheepshead Bay, N. Y.
4676—Perrot Mfg. Co., Beaver Falls, Pa.
4677—Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass. Adv. p. 57.
4678—Peters Engineering Co., 3452 Ludlow St., Philadelphia, Pa. (Sole distributors, General Metals Co., 419 Wesley Bldg., 17th & Arch Sts., Philadelphia, Pa.)
4680—Peterson Spring Co., 1660 Beard Ave., Detroit, Mich.
4681—Peters & Russell, Inc., 350 S. Limestone St., Springfield, Ohio.
4682—Petry Co., N. A., 328 N. Randolph St., Philadelphia, Pa.
4686—Pharis Tire & Rubber Co., Newark, Ohio.
4687—Phenix Mfg. Co., 026 Center St., Milwaukee, Wis.
4688—Pheoll Mfg. Co., 5700 W. Roosevelt Rd., Chicago, Ill.
4689—Philadelphia Solder Co., 2910 N. 16th St., Philadelphia, Pa.
4690—Philadelphia Storage Battery Co., Ontario & C Sts., Philadelphia, Pa.
4691—Phillips & Co., H., 904 Evans St., Cincinnati, Ohio.
4692—Phinney-Walker Co., 216 W. 14th St., New York, N. Y.
4693—Phister Mfg. Co., 903 Broadway, Cincinnati, Ohio.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

4694—Phoenix Hardware Mfg. Co., 49 Illinois St., Buffalo, N. Y.
4695—Phoenix Lock Works, 321 Third Ave., Newark, N. J.
4696—Phoenix Paint & Varnish Co., 124 Market St., Philadelphia, Pa.
4697—Phoenix Specialty Mfg. Co., 155 Wooster St., New York, N. Y.
4698—Phoenix Tent & Awning Co., 226 W. Adams St., Phoenix, Ariz.
4700—Phosphor Bronze Smelting Co., 2200 Washington Ave., Philadelphia, Pa. Adv. Opposite Inside Front Cover.
4701—Pickard Co., H. M., Avoca, N. Y. Adv. p. 69.
4702—Pick Mfg. Co., West Bend, Wis.
4704—Pierce-Arrow Motor Car Co., 1695 Elmwood Ave., Buffalo, N. Y.
4705—Pierce Governor Co., 1605 Ohio Ave., Anderson, Ind.
4706—Pierce Renewable Fuses, Inc., 77 E. Swan St., Buffalo, N. Y.
4707—Pierce-Roberts Rubber Co., Heath & Brian Aves., Trenton, N. J.
4708—Pier Equipment Mfg. Co., 440-50 North Shore Drive, Benton Harbor, Mich. Adv. p. 146.
4709—Pilley Packing & Fuse Brush Mfg. Co., 606 S. Third St., St. Louis, Mo. (Sole distributors, United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio.)
4711—Pimbley Paint & Glass Co., 213 S. Sixth St., St. Joseph, Mo.
4712—Pines Winterfront Co., 1125 N. Cicero Ave., Chicago, Ill. Adv. p. 71.
4713—Pioneer Air Compressor Co., 243 Canal St, New York, N. Y.
4716—Pioneer Rubber Mills, 345 Sacramento St., San Francisco, Calif.
4718—Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis.
4719—Piston Ring Co., Sanford & Keating Sts., Muskegon, Mich. Adv. p. 14.
4720—Pittsburgh Auto Spring Co., 5900 Center Ave., Pittsburgh, Pa.
4721—Pittsburgh Plate Glass Co., Grant Bldg., Pittsburgh, Pa.
4722—Pittsburgh Plate Glass Co. (Paint & Varnish Div.), 213 Pittsburgh Ave., Milwaukee, Wis.
4723—Pittsburgh Taximeter Co., 530 Duquesne Way, Pittsburgh, Pa.
4725—Plant Co., 322 First Ave., Minneapolis, Minn.
4726—Plomb Tool Co., 2209 Sante Fe Ave., Los Angeles, Calif.
4729—Plummer Spray Equipment Corp., 206 W. Front St., Napoleon, Ohio.
4731—Plymouth Mfg. Co., 2155 Walnut St., Chicago, Ill.
4733—Plymouth Rubber Co., Revere St., Canton, Mass.
4734—Pocono Rubber Cloth Co., 1851 E. State St., Trenton, N. J.
4735—Pollak Tool & Stamping Co., Joseph, 81 Freeport St., Boston, Mass.
4736—Polson Rubber Co., Garrettsville, Ohio.
4738—Popper-Addison Co., 118 E. Court St., Cincinnati, Ohio. (Importers.)
4740—Portable Power Tool Corp., Warsaw, Ind.
4741—Portable Tool Co., Monroeton, Pa.
4743—Porter, Inc., H. K., 33 Ashland St., Everett, Mass. Adv. p. 161.
4744—Porter Mirror & Glass Co., Fort Smith, Ark.
4745—Porter Safety Seal Co., 267 N. California Ave., Chicago, Ill.
4746—Positive Lock Washer Co., Ave. A & Miller St., Newark, N. J.
4747—Potter Mfg. Co., Jackson, Mich.
4749—Powell Co., Wm., 2525 Spring Grove Ave., Cincinnati, Ohio.
4750—Powell Muffler Co., 316 Catherine St., Utica, N. Y. Adv. p. 112.
4751—Powell Pressed Steel Co., Hubbard, Ohio.
4752—Powell Rubber Bushing Co., Utica, N. Y.
4753—Power Door Corp., 5201 W. 65th St., Chicago, Ill.
4754—Power-Dyne Mfg. Corp., 136-38 W. 22nd St., New York, N. Y. Adv. p. 75.
4755—Pratt Chuck Co., Frankfort, N. Y. Adv. p. 112.
4756—Pratt & Lambert, Inc., 79 Tonawanda St., Buffalo, N. Y.
4757—Pratt Mfg. Co., Wm. E., 190 N. State St., Chicago, Ill.
4758—Pratt & Whitney Co., 436 Capitol Ave., Hartford, Conn.
4760—Precision Electric Tool & Mfg. Co., 98 Union St., Worcester, Mass.
4761—Precision Grinding Wheel Co. (Holmesburg), Philadelphia, Pa.
4762—Precision Machine Co., 7127 Beach Drive, Seattle, Wash.
4763—Premax Products, Inc., 235 Tenth St., Niagara Falls, N. Y.
4764—Premier Electric Co., 3800 Ravenswood Ave., Chicago, Ill.
4764a—Premier Metal Etching Co., 2103 44th Ave., Long Island City, N. Y.
4765—Premier Vacuum Cleaner Co., 1734 Ivanhoe Rd., Cleveland, Ohio.
4766—Prentiss Vise Co., 110 Lafayette St., New York, N. Y.
4770—Prest-O-Lite Co. (Appliance & Small Tank Div.), 30 E. 42nd St., New York, N. Y.
4771—Prest-O-Lite Storage Battery Corp., Indianapolis, Ind. (Sole distributors, Prest-O-Lite Storage Battery Sales Corp., Indianapolis, Ind.)
4773—Price Battery Corp., Melvale, Schiller & Allen Sts., Philadelphia, Pa.
4775—Price-Hollister Co., Rockford, Ill.
4778—Procunier Safety Chuck Co., 18 S. Clinton St., Chicago, Ill.
4779—Production Machine Tool Co., 629 E. Pearl St., Cincinnati, Ohio.
4782—Progressive Brass Mfg. Co., 1711 Cherry St., Kansas City, Mo.
4784—Progress Mfg. Co., Arthur, Ill.
4785—Proof Machine & Brass Foundry Co., 936 E. 72nd St., Cleveland, Ohio.
4786—Protectahood Corp., 4 Osborne St., Auburn, N. Y.
4787—Protection Products Co., 729 Milwaukee Ave., Chicago, Ill.
4791—Protex-A-Motor Mfg. Co., Penn Ave., Exeter Borough, Pittston, Pa.
4792—Protex Chain Co., Waynesboro, Pa.
4794—Protex Glass Co., 220 Fifth Ave., New York, N. Y.
4798—Pueblo Tent & Awning Co., First St. & Sante Fe Ave., Pueblo, Colo.
4799—Pugh Printing Co., A. H., 400 Pike St., Cincinnati, Ohio.
4801—Purfex Mfg. Co., 710 N. 16th St., Philadelphia, Pa.
4802—Puritan Soap Co., 500 Exchange St., Rochester, N. Y. Adv. p. 74.
4803—Purox Division, Oxweld Acetylene Co., 2101 Blake St., Denver, Colo.
4804—Pye & Co., Robert E., 60 McLean Ave., Yonkers, N. Y.
4806—Pyrene Mfg. Co., 560 Belmont Ave., Newark, N. J.

Q

5000—Quaker City Iron Works, Tioga & Richmond Sts., Philadelphia, Pa.
5001—Quaker Oil Products Corp., Conshohocken, Pa.
5002—Quality Tools Corp., New Wilmington, Pa.
5003—Queen Quality Luggage Corp., 327 W. Fayette St., Syracuse, N. Y. (Sole distributors, Bi-Sell Corp., 327 W. Fayette St., Syracuse, N. Y.)
5004—Quincy Compressor Co., 217 Main St., Quincy, Ill. Adv. p. 140.

R

5025—RBF Ball Bearing Co., 27 W. 60th St., New York, N. Y. (Importers.) Adv. p. 82.
5026—R.I.V. Co., 1775 Broadway, New York, N. Y. (Importers.)
5029—Racine Tool & Machine Co., 1750 State St., Racine, Wis.
5030—Racine Universal Motor Co., 1637 Gould St., Racine, Wis.
5031—Radel Leather Mfg. Co., Wilson & Hyatt Aves., Newark, N. J.
5032—Radiator Engineering Co., Factories Bldg., Toledo, Ohio.
5033—Rahn-Larmon Co., 2941 Spring Grove Ave., Cincinnati, Ohio.
5034—Raike & Co., Damon, 1417 W. Jackson Blvd., Chicago, Ill. (Importers.)
5035—Rainey-Pettler Mfg. Co., 339 W. Spring St., Titusville, Pa.
5036—Rajah Co., Locust Ave. & Nelson St., Bloomfield, N. J. Adv. p. 92.
5037—Rajo Motor Co., 1327 Racine St., Racine, Wis.
5038—Ramsdell Mfg. Co., 6536 Carnegie Ave., Cleveland, Ohio.
5039—Ramsey Accessories Mfg. Corp., 3693 Forest Park Blvd., St. Louis, Mo.
5040—Ramsey Chain Co., Albany, N. Y.
5041—Randall Co., 5000 Spring Grove Ave., Cincinnati, Ohio.
5042—Rand, McNally & Co., 536 S. Clark St., Chicago, Ill.
5043—Ransom Mfg. Co., 320 Eighth St., Oshkosh, Wis.
5044—Ransom & Randolph Co., Superior & Chestnut Sts., Toledo, Ohio.
5044a—Raser Tanning Co., Evans St., Ashtabula, Ohio.
5045—Rauch & Co., F. A., 410 S. Market St., Chicago, Ill.
5046—Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
5047—Rawle Co., M., 210 West 65th St., New York, N. Y. (Importers.)
5048—Rawson & Evans Co., 710 W. Washington Blvd., Chicago, Ill.
5049—Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn. Adv. p. 279.
5050—Ray Day Piston Co., Walton & W. Warren Sts., Detroit, Mich.
5051—Raymond Mfg. Co., 226 S. Center St., Corry, Pa.
5052—Reach Textile Co., A. L., 6 W. 20th St., New York, N. Y.
5053—Read & Co., A. P., 568 W. Washington St., Chicago, Ill.
5055—Reading Rubber Mfg. Co., Reading, Mass (Sole distributors, L. C. Chase & Co., 89 Franklin St., Boston, Mass.)
5056—Reading Screw Co., Main & Gay Sts., Norristown, Pa.
5058—Ready Tool Co., 550 Iranistan Ave., Bridgeport, Conn.
5061—Red Ball Motor Truck Corp., Frankfort, Ind.
5062—Red Bar Battery Co., Bacon & Bainbridge Sts., Dayton, Ohio.
5064—Red Head Mfg. Co., 1983 E. 57th St., Cleveland, Ohio. Adv. p. 60.
5065—Red-Line Reamer Co., Elks Bldg., Philadelphia, Pa.
5066—Redmond Co., A. G., 1109 Stewart Ave., Flint, Mich.
5068—Reed Mfg. Co., W. Eighth St. & E. P. Crossing, Erie, Pa.
5069—Reed & Prince Mfg. Co., Duncan Ave., Worcester, Mass.
5071—Reedy Auto-Truck & Trailer Co., Xanthus & Frisco Tracks, Tulsa, Okla.
5072—Reese Padlock Company, 128 Sherman St., Lancaster, Pa.
5074—Rees Mfg. Corp., 7501 Thomas Blvd., Pittsburgh, Pa.
5075—Reeve Hold Ever Products, Inc., 253 Chadwick Ave., Newark, N. J.
5076—Reeves, W. G., Stockbridge, Mich.
5077—Reeves Co., E. M., Flint, Mich.
5079—Reflex Spark Plug Co., 10804 Berea Rd., Cleveland, Ohio.
5081—Rehberger & Son, Arthur, 316 Ferry St., Newark, N. J.
5082—Reichard Mfg. Co., F. H., Bangor, Pa.
5083—Reiff & Nestor Co., Lykens, Pa.
5084—Reilly Co., John, 40 Ave. C, Newark, N. J.
5085—Relay Motors Corp., Lima, Ohio.
5091—Reliable Stove Co., Div. of American Stove Co., 1825 E. 40th St., Cleveland, Ohio.
5092—Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa.
5093—Reliance Mfg. Co., Massillon, Ohio.
5094—Reliance Specialty Co., Holyoke Water Co. Bldg., Rear Cabot St., Holyoke, Mass. Adv. p. 53.
5095—Reliance Trailer & Truck Co., 1642 Howard St., San Francisco, Calif.
5096—Remington-Keystone Mfg. Co., 400 Chester Rd., Ridley Park, Pa. Adv. p. 80.
5098—Renu Hetepruf Co., Holland, Mich. Adv. p. 29.
5099—Reo Motor Car Co., 1331 S. Washington Ave., Lansing, Mich. Adv. p. 33.
5100—Repcal Brass Mfg. Co., 2109 E. 27th St., Los Angeles, Calif.
5101—Republic Gear Co., 3171 Bellevue Ave., Detroit, Mich.
5102—Republic Rubber Co., Youngstown, Ohio.
5103—Reschke Machine Works, 908 N. Washington Ave., Wichita, Kan.
5104—Revere Copper & Brass, Inc., Rome, N. Y.
5105—Rex Accessories Co., 415 Lake Ave., Racine, Wis.
5108—Reynolds Aluminum Co., New Washington, Ohio.
5110—Reynolds & Reynolds Co., Washington & Dudley Sts., Dayton, Ohio.
5111—Reynolds Spring Co., S. Water St., Jackson, Mich.
5112—Rhamstine, J. Thos., 500 E. Woodbridge St., Detroit, Mich.
5112a—Rheem Mfg. Co., 4535 Horton St., Emeryville, Calif.
5113—Rhoads & Sons, J. E., 35 N. Sixth St., Philadelphia, Pa.
5114—Rhode Island Tool Co., 148 W. River St., Providence, R. I.
5115—Rhodes & Co., James H., 153 W. Austin Ave., Chicago, Ill.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

5116—Rice & Co., Chas. W., Union City, Ind.
5117—Richards Machinery Co., 3417 Vliet St., Milwaukee, Wis.
5117a—Richardson Co., Lockland, Ohio.
5118—Richards-Wilcox Mfg. Co., Third St. & C. B. & Q. R. R. Tracks, Aurora, Ill.
5119—Richland Auto Parts Co., 24½ E. Sixth St., Mansfield, Ohio.
5120—Richman Chemical Products Co., 2738 W. Van Buren St., Chicago, Ill.
5122—Richmond Engineering Co., 935 Brook Ave., Richmond, Va.
5123—Richmond Hammered Ring Co., Souderton, Pa.
5125—Richmond Mica Corp., 323 S. Ninth St., Richmond, Va.
5126—Richmond Pressed Metal Works, 506 Maury St., Richmond, Va.
5129—Ridgely Trimmer Co., Kenton St., Springfield, Ohio.
5130—Riebe Ball Bearing Co. of N. J., 250 W. 54th St., New York, N. Y.
5131—Rieker Instrument Co., 1919 Fairmount Ave., Philadelphia, Pa.
5132—Riess Mfg. Co., 315 S. Union St., Kokomo, Ind.
5133—Right-Way Brake Tester Co., 110 N. Water St., Watertown, Wis.
5134—Rinck-McIlwaine, Inc., 16 Hudson St., New York, N. Y.
5135—Ringleader Mfg. Co., 1033 N. E St., Richmond, Ind.
5136—Rinshed-Mason Co., 5135 Milford St., Detroit, Mich.
5137—Rippner Bros. Mfg. Co., 2125 Superior Ave., Cleveland, Ohio.
5139—Riverside Mfg. Co., Moultrie, Ga.
5140—Rix Co., 400 Fourth St., San Francisco, Calif.
5141—Roamer Consolidated Corp., 1902 Reed St., Kalmazoo, Mich.
5142—Robbins & Myers, Inc., Lagonda Ave., Springfield, Ohio.
5142a—Roberts Brass Mfg. Co., 5435 W. Fort St., Detroit, Mich.
5144—Robertson Products Co., Theo. B., 700 W. Division St., Chicago, Ill.
5147—Robinson Co., G. H., 1455 S. Michigan Ave., Chicago, Ill.
5148—Robinson Co., M. W., 28 Warren St., New York, N. Y.
5149—Robinson Fire Apparatus Mfg. Co., 4250 N. 20th St., St. Louis, Mo.
5154—Rochester Mfg. Co., Rockwood St. (Brighton), Rochester, N. Y.
5155—Rochester Tool & Gauge Co., 45 Halsted St., Rochester, N. Y.
5156—Rockford Bolt Co., 230 Mill St., Rockford, Ill.
5157—Rockford Machine Tool Co., 2400 Kishwaukee St., Rockford, Ill.
5159—Rock Island Mfg. Co., 4140 Fullerton Ave., Chicago, Ill.
5162—Rodenhausen's Excelsior Wagon Works, Ninth & Jefferson Sts., Philadelphia, Pa.
5163—Roebling's Sons Co., John A., 640 S. Broad St., Trenton, N. J.
5165—Rogers Products Co., 198 Pacific Ave., Jersey City, N. J. Adv. p. 156.
5166—Roland & Koch, 220 Sotello St., Los Angeles, Calif.
5167—Roller Bearing Co. of American, Whitehead Rd., Trenton, N. J. Adv. p. 231.
5168—Rolls-Royce of America, Inc., Page Blvd., Springfield, Mass.
5170—Rollway Bearing Co., 541 Seymour St., Syracuse, N. Y. Adv. p. 241.
5171—Rome Brass & Copper Co., Div. Revere Copper & Brass, Inc., Bouck St., Rome, N. Y.
5172—Rome-Turney Radiator Co., 300 S. James St., Rome, N. Y.
5173—Romort Mfg. Co., Oakfield, Wis.
5174—Ronan Co., T. J., 17 Atlantic Ave., Brooklyn, N. Y.
5715—Roper Corp., Geo. D., 707 S. Main St., Rockford, Ill.
5176—Rose Mfg. Co., 37th & Filbert Sts, Philadelphia, Pa.
5178—Rose Mfg. Co., Frank, Second St. & Kansas Ave., Hastings, Neb.
5179—Rosen & Co., A. W., 418 E. 106th St., New York, N. Y.
5180—Roser & Son, Herman, Glastonbury, Conn.
5181—Rosier-Howard Co., 14 W. First St., Hutchinson, Kan.
5183—Ross Gear & Tool Co., 800 Heath St., Lafayette, Ind.
5185—Rostand Mfg. Co., R. R. Ave., Milford, Conn.
5185a—Rotary Lift Co., 1055 Kentucky St., Memphis, Tenn.
5187—Rotary Snow Plow Co., 1615 Polk St., N. E., Minneapolis, Minn.
5188—Rotawasher Corp., 203 St. Clair Ave., E., Cleveland, Ohio.
5190—Roth Bros. & Co., 1400 W. Adams St., Chicago, Ill.
5191—Roth Mfg. Co., G. A., 810 W. First St., Hastings, Neb.
5192—Rottler Boring Bar Co., 1515 Eighth Ave., N., Seattle, Wash.
5193—Round & Son, D., Penna. R. R. & Henry Rd., Cleveland, Ohio.
5194—Rowan Battery Supply Co., Walter, 223 N. Peoria St., Chicago, Ill.
5195—Rowe Mfg. Co., 18th & Hampshire Sts., San Francisco, Calif.
5196—Rowland, Inc., William & Harvey, Lewis & Tacony Sts., Philadelphia, Pa. Adv. p. 129.
5197—Royal Brass Mfg. Co., 1420 E. 43rd St., Cleveland, Ohio.
5198—Royal Glass Works Corp., Fourth & Haywood Sts., Long Island City, L. I., N. Y.
5199—Royal Piston Ring Co., Bath, N. Y.
5200—Royal Textile Co., 18 Kingston St., Boston, Mass.
5201—Royersford Foundry & Machine Co., Royersford, Pa.
5202—Royersford Spring Bed Co., First Ave. & Main St., Royersford, Pa.
5206a—Rubin Trimming Works, 54 W. 21st St., New York, N. Y.
5207—Rub-Tex Products Co., 20th & Olney Sts., Indianapolis, Ind.
5210—Rupert Diecasting & Stamping Co., 1404 Agnes Ave., Kansas City, Mo.
5212—Rush & Co., W. S., 1815 N. Broadway, Los Angeles, Calif.
5213—Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. Adv. p. 123.
5214—Russell Mfg. Co., Dept. Q-14, Middletown, Conn. Adv. p. 107.
5214a—Russell Mfg. Co., Carpenters Lane, Greenfield, Mass.
5215—Russell & Stoll Co., 53 Rose St., New York, N. Y.
5216—Rusticide Co., 416 Frankfort Ave., Cleveland, Ohio.
5217—Ruth Glass Co., Tenth Ave. & Hallowell St., Conshohocken, Pa.
5218—Ryco, Inc., 417 23rd St., Oakland, Calif.
5219—Ryerson & Haynes, Inc., 2307 E. Ganson St., Jackson, Mich.

S

5400—S. B. R. Specialty Co., 17 Princeton St., East Orange, N. J.
5401—SKF Industries, Inc., 40 E. 34th St., New York, N. Y. (Supervising: Hess-Bright Mfg. Co., Skayef Ball Bearing Co., Atlas Ball Co.) Adv. p. 227.
5402—S & M Lamp Co., 118 W. 36th St., Los Angeles, Calif
5402a—S. P. A. Truck Corp., South Bend, Ind.
5403—S-W-S Co., 15 Wilder St., Minneapolis, Minn.
5405—Saf-De-Lite Corp., Connersville, Ind.
5406—Safetee Glass Co., 905 N. Broad St., Philadelphia, Pa.
5407—Safety Fire Extinguisher Co., 293 Seventh Ave., New York, N. Y.
5408—Safety Lift Co., 16 Beaver St., New York, N. Y.
5409a—Saginaw Stamping & Tool Co., Saginaw, Mich.
5410—Saintclair Products Co., 17 Sherman Ave., East Newark, N. J.
5411—St. Louis Car Co., 8000 N. Broadway, St. Louis, Mo.
5413—St. Louis Rubber Cement Co., 3952 W. Pine Blvd., St. Louis, Mo. Adv. p. 171.
5414—St. Louis Spring Co., 3135-39 Washington Blvd., St. Louis, Mo. Adv. p. 129.
5415—St. Louis Tag Co., 217 Locust St., St. Louis, Mo. Adv. p. 88.
5416—St. Louis Tool & Mfg. Co., 3300 N. Broadway, St. Louis, Mo. Adv. p. 153.
5417—St. Marys Wheel & Spoke Co., St. Marys, Ohio.
5418—St. Paul Hydraulic Hoist Co., 292 Walnut St., St. Paul, Minn.
5419—St. Paul Welding & Mfg. Co., 168 W. Third St., St. Paul, Minn.
5420—St. Pierre Chain Corp., Frank St., Worcester, Mass. Adv. p. 38.
5421—Saks Mfg. Co., 14 W. Lake St., Chicago, Ill.
5424—Sampson Tool Co., 916 State St., East St. Louis, Ill.
5425—Samson Products Co., 663 N. Broad St., Philadelphia, Pa.
5426—Samson Tire & Rubber Corp., 5725 Telegraph Rd., Los Angeles, Calif.
5428—San Antonio Body Co., 823 Roosevelt Ave., San Antonio, Tex.
5429—Sanders Mfg. Co., 124 Second Ave., N., Nashville, Tenn.
5430—Sanderson-Cyclone Drill Co., Orrville, Ohio.
5430a—Sandoz-Vuille, Inc., 4-218 General Motors Bldg., Detroit, Mich.
5432—Sanford Automotive Corp., 2 Berwick St., Sanford, Me.
5433—Sanford Mills, Sanford, Me.
5434—Sanford Motor Truck Co., 107 St. Marks Ave., Syracuse, N. Y.
5435—Sapolin Co., 229 E. 42nd St., New York, N. Y.
5436—Sargent & Co., 45 Water St., New Haven, Conn.
5438—Sasgen Derrick Co., 3101 Grand Ave., Chicago, Ill. (Sole distributors, Automotive Maintenance Machinery Co., 810 W. Washington Blvd., Chicago, Ill.)
5440—Sav-Oil Ring Mfg. Co., 1718 S. Hill St., Los Angeles, Calif.
5441—Sawyer-Weber Tool Mfg. Co., 4148 Whiteside Ave., Los Angeles, Calif.
5442—Sayers & Scoville Co., Gest & Summer Sts., Cincinnati, Ohio.
5443—Saylor Electric & Mfg. Co., 1014 Lynn St., Detroit, Mich.
5444—Scaife & Sons Co., Wm. B., First National Bank Bldg., Pittsburgh, Pa.
5445—Scandinavia Belting Co., 248 Central Ave., Newark, N. J.
5446—Schaefer Co., Gustav, 4180 Lorain Ave., Cleveland, Ohio.
5448—Schaefer Tent & Awning Co., 1421 Larimer St., Denver, Colo.
5449—Schaffer, M., 597 St. Anns Ave., New York, N. Y.
5451—Schartow Iron Products Co., Sattley Bldg., Racine, Wis.
5452—Schauer Machine Co., 905 Broadway, Cincinnati, Ohio.
5453—Schellenbach-Hunt Tool Co., 116 Opera Pl., Cincinnati, Ohio.
5456—Schmelz Mfg. Co., 290 Fremont St., San Francisco, Calif.
5457—Schmidt Corp., Charles D., 276 Canal St., New York, N. Y.
5458a—Schoedinger, F. O., 322-58 Mt. Vernon Ave., Columbus, Ohio. Adv. p. 53.
5459—Schoelkopf Mfg. Co., 210 E. Washington Ave., Madison, Wis.
5460—Schoellkopf Co., 814 Jackson St., Dallas, Tex.
5461—Schoettle Co., Edwin J., 533 N. 11th St., Philadelphia, Pa.
5461a—Schofield, Inc. of America, 2652 Long Beach Ave., Los Angeles, Calif.
5462—Scholler Mfg. Co., 147 Leslie St., Buffalo, N. Y.
5465—Schrader's Son, A., 470 Vanderbilt Ave., Brooklyn, N. Y. Adv. p. 72.
5468—Schroeder & Tremayne, Inc., 500 N. Commercial St., St. Louis, Mo.
5471—Schultz & Hirsch Co., 1300 Fulton St., Chicago, Ill.
5472—Schultz & Son, A. L., 1675 Elston Ave., Chicago, Ill.
5476—Schwarze Electric Co., Dept. 3, Church St. at Payne Ave., Adrian, Mich. Adv. p. 57.
5477—Schwarzenbach, Huber & Co., 462 Fourth Ave., New York, N. Y.
5478—Schweig & Son, George E., 2829 N. Broad St., Philadelphia, Pa. (Importers.)
5479—Scientific Heater Co., 1406 Builders Exchange Bldg., Cleveland, Ohio.
5481—Scott & Ewing Co., 238 Cherry St., Bluffton, Ohio.
5482—Scranton Glass Instrument Co., 939 Capouse Ave., Scranton, Pa.
5485—Scully Steel & Iron Co., 2364 S. Ashland Ave., Chicago, Ill.
5486—Seagrave Co., S. High st., Columbus, Ohio.
5486a—Seaman Body Corp., 1732 Richards St., Milwaukee, Wis.
5488—Seamless Rubber Co., City Point, New Haven, Conn.
5490—Sebastian Lathe Co., Third & Philadelphia Sts., Cincinnati, Ohio.
5491—Security Mfg. Co., 1047 Venice Blvd., Los Angeles, Calif.
5493—Sedgwick Machine Works, 150 W. 15th St., New York, N. Y.
5494a—Segal Lock & Hardware Co., 12 Warren St., New York, N. Y.
5495—Seiberling Rubber Co., Akron, Ohio.
5496—Seiss Mfg. Co., 3839 Alexis Ave., Toledo, Ohio.
5497—Sek-Reliance Corp., 211 Madison Ave., Covington, Ky.
5498—Selden-Hahn Motor Truck Corp., Allentown, Pa.
5502—Seneca Falls Machine Co., 314 Fall St., Seneca Falls, N. Y.
5503—Seneca Wire & Mfg. Co., Vine St., Fostoria, Ohio.
5504—Service Caster & Truck Co., 519 N. Albion St., Albion, Mich.
5505—Service Equipment Co., 8459 Dearborn Ave., Southgate, Calif.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

5508—Service Recorder Co., 454 Hanna Bldg., Cleveland, Ohio.
5509—Service Spring Co., 735 St. Paul St., Indianapolis, Ind. Adv. p. 130.
5510—Service Station Equipment Co., Conshohocken, Pa.
5510a—Service Steel Co., 1431 Franklin St., Detroit, Mich.
5511—Servwell Sales Corp., 1749 N. Winchester Ave., Chicago, Ill.
5512—Sesamee Co., 576 Capitol Ave., Hartford, Conn.
5513—Sevison Magneto Engineering Co., 397 Phillips Ave., Toledo, Ohio.
5514—Sewall Paint & Varnish Co., 1009 W. Eighth St., Kansas City, Mo.
5515—Seward Trunk & Bag Co., High St., Petersburg, Va.
5519—Shakeproof Lock Washer Co., 2501 N. Keeler Ave., Chicago, Ill.
5520—Shaler Co., 728 Fourth St., Waupun, Wis. Adv. p. 165.
5522—Shank Sign Co., E. A., 25 W. 43rd St., New York, N. Y.
5524—Sharpe Mfg. Co., 1356 S. Flower St., Los Angeles, Calif.
5525—Sharples Specialty Co., 2300 Westmoreland St., Philadelphia, Pa.
5526—Sharpsville Boiler Works Co., Sharpsville, Pa.
5529—Shawyer Co., 21 W. Pleasant St., Springfield, Ohio.
5531—Sheldon Machine Co., 3253 Cottage Grove Ave., Chicago, Ill.
5532—Shelton Tack Co., Shelton, Conn.
5533—Shelton Tubular Rivet Co., Shelton, Conn. Adv. p. 121.
5534—Shepard & Moore, Inc., 1514 Prospect Ave., Cleveland, Ohio. Adv. p. 65.
5535—Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.
5536—Shepard-Thomason Co., 506 W. Pico St., Los Angeles, Calif.
5538—Sherman-Klove Co., 3535 W. 47th St., Chicago, Ill.
5539—Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
5541—Sherwin-Williams Co., Dept. 733, 101 Prospect Ave., N. W., Cleveland, Ohio. Adv. p. 31.
5542—Sherwood Brass Works, 6631 E. Jefferson Ave., Detroit, Mich.
5543—Sherwood Co., A. S., 258 W. 54th St., New York, N. Y.
5545—Shoemaker Automotive Equipment Co., Henney Bldg., Freeport, Ill.
5547—Shop of Siebert, 614 Southard Ave., Toledo, Ohio.
5549—Shur-Gloss Mfg. Co., 3555 W. Grand Ave., Chicago, Ill.
5550—Shurhit Products, Inc., Waukegan, Ill.
5552—Shwayder Trunk Mfg. Co., 1050 S. Broadway, Denver, Colo.
5553—Sibley Machine Co., 206 E. Tutt St., South Bend, Ind.
5554—Sickles Co., J. B., 2100 Washington Ave., St. Louis, Mo.
5555—Sidney Elevator Mfg. Co., Miami & Shelby Sts., Sidney, Ohio.
5556—Signal Mfg. Co., 587 Washington St., Lynn, Mass. Adv. p. 58.
5557—Silent Hoist Winch & Crane Co., 762 Henry St., Brooklyn, N. Y.
5559—Siltop Mfg. Co., 1241 N. Vine St., Los Angeles, Calif.
5560—Silver King Hydraulic Jack Co., 5604 Cedar Ave., Cleveland, Ohio. Adv. p. 154.
5562—Simmen Hydraulic Jack Corp., 44 Clay St., Newark, N. J.
5563—Simmons Mfg. Co., 3405-11 Perkins Ave., Cleveland, Ohio. Adv. p. 118.
5565—Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
5565a—Simonds Worden White Co., Dayton, Ohio.
5566—Simoniz Co., 2101 Indiana Ave., Chicago, Ill.
5567—Simonsen Iron Works, Sioux Rapids, Iowa.
5568—Simons Paint Spray Brush Co., 1106 Maryland Ave., Dayton, Ohio.
5570—Simplex Body & Mfg. Co., Conneautville, Pa.
5571—Simplex Mfg. Co., 12 Franklin St., Auburn, N. Y.
5572—Simplex Paper Corp., Adrian, Mich.
5573—Simplex Piston Ring Co. of America, 1966 E. 66th St., Cleveland, Ohio.
5575—Simplex Time Recorder Co., 50 Time Ave., Gardner, Mass. Adv. p. 161.
5576—Simplex Universal Joint, Inc., 149 North Ave., Plainfield, N. J.
5577—Simplex Wire & Cable Co., 201 Devonshire St., Boston, Mass.
5578—Simplicity Mfg. Co., 70 Spring St., Port Washington, Wis.
5580—Singer Machine Works, Joe, 2116 S. Los Angeles St., Los Angeles, Calif.
5581—Sinko Tool & Mfg. Co., 351-71 N. Crawford Ave., Chicago, Ill.
5584—Sistersville Tank & Boiler Works, Sistersville, W. Va.
5585—Six Wheels, Inc., 1223 Santa Fe Ave., Los Angeles, Calif.
5588—Skilsaw, Inc., 1801 Bernice Ave., Chicago, Ill.
5589—Skinner Motors, Inc., 2231 Dalzelle St., Detroit, Mich.
5589a—Sky Specialties Corp., 3651 Hart Ave., Detroit, Mich.
5592—Slaymaker Electric Welding Co., 6686 W. Grand Blvd., Detroit, Mich.
5593—Slaymaker Lock Co., West End Ave. & First St., Lancaster, Pa.
5595—Sloane Mfg. Co., W. & J., Trenton, N. J. (Sole distributors, W. & J. Sloane, 575 Fifth Ave., New York, N. Y.)
5596—Slocomb Co., J. T., 35 Oxford St., Providence, R. I.
5597—Sly Mfg. Co., W. W., 4700 Train Ave., Cleveland, Ohio.
5598—Smith Belting Co., Manning J., Tenth St. & Allegheny Ave., Philadelphia, Pa.
5599—Smith & Co., F. P., Sharon Hill, Pa.
5600—Smith Co., Harrison, 711 N. Broadway, Oklahoma City, Okla.
5601—Smith Glass Co., L. E., Mount Pleasant, Pa.
5602—Smith & Hemenway (Div. Crescent Tool Co.), 217 Harrison St., Jamestown, N. Y.
5604—Smith Mfg. Co., F. A., 183 N. Water St., Rochester, N. Y.
5605—Smith-Schifflin Co., 149 Church St., New York, N. Y.
5607—Smith Stamping Co., Peter, 10501 Haggerty Ave., Detroit, Mich.
5608—Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis, Minn.
5609—Smith Wood-Products, Inc., 1900 Armour Rd., North Kansas City, Mo.
5610—Smooth-On Mfg. Co., 572 Communipaw Ave., Jersey City, N. J.
5611—Snap-On Wrench Co., 14 E. Jackson Blvd., Chicago, Ill. (Sole distributors, Motor Tool Specialty Co., 14 E. Jackson Blvd., Chicago, Ill.)
5613—Snellex Mfg. Co., 304 Franklin St., Rochester, N. Y.
5616—Snow Flyer Corp., New Holstein, Wis.
5617—Snyder & Son, M. L., 116 N. Third St., Philadelphia, Pa.
5619—So-Lo-Jack Co., Attleboro, Mass.
5624—Sommer & Maca Glass Machinery Corp., 3600 S. Oakley Ave., Chicago, Ill.
5625—Sonneborn Sons, L., 114 Fifth Ave., New York, N. Y.
5626—Sorenson Mfg. Co., 17 W. 60th St., New York, N. Y.
5627—Soss Mfg. Co., 647 E. First Ave., Roselle, N. J.
5628—South Atlantic Waste Co., N. Brevard St., Charlotte, N. C.
5629—South Bend Lathe Works, 373 E. Madison St., South Bend, Ind. Adv. p. 165.
5632—Southern Cotton Oil Co. (Paint Prod. Div.), Lathrop Ave., Savannah, Ga. Adv. p. 75.
5633—Southern Friction Fabric Co., Charlotte, N. C.
5635—Southern Iron & Equipment Co., Hemphill Ave. & Southern Ry., Atlanta, Ga.
5636—Southern Oxygen Co., Alexandria Rd., South Washington, Va.
5637—Southern Weaving Co., Greenville, S. C.
5639—Southwest Onyx & Marble Co., Foot of Crosby St., San Diego, Calif.
5640—Southwest Pump Co., First & Center Sts., Bonham, Tex.
5641—Sparks-Withington Co., Jackson, Mich. Adv. p. 58.
5645—Specialty Mfg. Co., 10698 Berea Rd., Cleveland, Ohio.
5647—Speednut Wrench Corp., 846 State-Lake Bldg., Chicago, Ill.
5648—Speedwell Bearings, Inc., 1834 Broadway, New York, N. Y.
5649—Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa.
5650—Spence-Bergen Motor Co., 524 Crawford St., Middletown, Ohio. (Sole distributors, Simplicity Mfg. Co., 70 Spring St., Port Washington, Wis.)
5651—Spencer Mfg. Co., Main St., Spencer, Ohio. Adv. p. 80.
5652—Spencer-Smith Machine Co., Howell, Mich.
5653—Spicer Mfg. Corp., 4100 Bennett Rd., Toledo, Ohio.
5654—Spiro Mfg. Co., C., Spiro Bldg., Dobbs Ferry, N. Y.
5654a—Split Coach Motor Corp., 1400 Lincoln Highway, W., York, Pa.
5655—Splitdorf Electrical Co., 392 High St., Newark, N. J.
5656—Spraco, Inc., 114 Central St., Somerville, Mass.
5657—Spraker Mfg. Co., 1440 E. 19th St., Indianapolis, Ind.
5658—Springboro Mfg. Co., Beaver St., Springboro, Pa.
5662—Springfield Machine Tool Co., 631 W. Southern Ave., Springfield, Ohio.
5663—Springfield Mfg. Co., 317 Mt. Grove St., Bridgeport, Conn.
5664—Springfield Mfg. Co., Bechtle Ave. & Columbia St., Springfield, Ohio. Adv. p. 102.
5665—Springfield Wagon & Trailer Co., Springfield, Mo.
5665a—Springfield Wheel Puller Co., 510 Hubert Ave., Springfield, Ohio.
5667—Stafford, Inc., S. S., 603 Washington St., New York, N. Y.
5668—Staley Co., Earl B., 915 Eleventh Ave., Seattle, Wash.
5670—Standard Arm Rest Co., 40 Clifford St., Providence, R. I.
5671—Standard Battery Mfg. Co., 1103 N. Main St., Fort Worth, Tex.
5672—Standard Belt Co., 617 Broadway, Chelsea, Mass.
5674—Standard Brass Works, 1820 St. Paul Ave., Milwaukee, Wis.
5676—Standard Electrical Tool Co., 1938 W. Eighth St., Cincinnati, Ohio.
5677—Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex.
5679—Standard Flag & Mfg. Co., 716 Chestnut St., Philadelphia, Pa.
5681—Standard Heel & Counter Co., 1024 N. 11th St., St. Louis, Mo.
5683—Standard Machinery Co., 1475 Elmwood Ave., Auburn, N. J.
5684—Standard Mfg. & Sales Corp., 701 La Fayette Ave., Lebanon, Ind.
5685—Standard Mirror Co., 147 Harrison St., Buffalo, N. Y.
5687—Standard Motor Products, Inc., 10 46th Ave., Long Island City, N. Y.
5688—Standard Motor Truck Co., 1111 Bellevue Ave., Detroit, Mich.
5690—Standard Pressed Steel Co., Jenkintown, Pa.
5691—Standard Register Co., Albany & Campbell Sts., Dayton, Ohio.
5692—Standard Safety Corp., 1425 W. Pico St., Los Angeles, Calif.
5694—Standard Sheet Metal Works, 1409 30th St., Milwaukee, Wis.
5695a—Standard Steel & Bearings, Inc., Woodford Ave., Plainville, Conn. (Sole distributors M-R-C Bearings Service Co., 402 Chandler St., Jamestown, N. Y.)
5696—Standard Steel Specialty Co., Beaver Falls, Pa.
5697—Standard Steel Stamping Co., W. Louisiana Ave. & D. & R. G. W. Tracks, Denver, Colo.
5699—Standard Textile Products Co., 320 Broadway, New York, N. Y.
5700—Standard Tool Co., 6900 Central Ave., Cleveland, Ohio.
5701—Standard Trailer Co., 162 Grant St., Cambridge Springs, Pa.
5702—Standard Tube & Mfg. Co., 2435 Scotten Ave., Detroit, Mich.
5703—Standard Underground Cable Co., Perth Amboy, N. J.
5704—Standard Varnish Works, 443 Fourth Ave., New York, N. Y.
5705—Standard Waste Mfg. Co., 2306 N. American St., Philadelphia, Pa.
5706—Stanley Baggage Co., Stanley, Wis.
5707—Stanley Co., John T., 642 W. 30th St., New York, N. Y.
5708—Stanley Electric Tool Co., 111 Elm St., New Britain, Conn.
5709—Stanley Rule & Level Plant, 111 Elm St., New Britain, Conn.
5710—Stant Machine Co., 1620 Columbia St., Connersville, Ind.
5711—Stanton, Inc., Edwin L., 3954 Whiteside Ave., Los Angeles, Calif.
5713—Star Carriage Co., 91 Stacy St., Seattle, Wash.
5715—Stark Metal Works, 4058 Flora Blvd., St. Louis, Mo.
5718—Star Products, Inc., 15105 Darwin Ave., Cleveland, Ohio.
5719—Starrett Co., L. S., 165 Crescent St., Athol, Mass.
5720—Star Specialty Mfg. Co., 2034 Daily News Bldg., Chicago, Ill.
5721a—Star Tool Co., 119 N. Fourth St., Minneapolis, Minn.
5722—Statite Rubber Products Co., 1909 Glenway Ave., Covington, Ky.
5723—Staude Mfg. Co., E. G., 2675 University Ave., St. Paul, Minn.
5725—Steel Blanking Co., 504 E. Market St., Sandusky, Ohio.
5726—Steel or Bronze Piston Ring Corp., 564 S. Meridian St., Indianapolis, Ind.
5727—Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis, Mo.
5728—Steel Equipment Corp., Avenel, N. J.
5730—Steel Sales Corp., 129 S. Jefferson St., Chicago, Ill.
5731—Steel and Tubes, Inc., 224 E. 131st St., Cleveland, Ohio.

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

5733—Steiner Electric Corp., 590 Northern Blvd., Long Island City, N. Y.
5736—Step-N-Drive Truck Corp., 1255 Niagara St., Buffalo, N. Y.
5739—Sterling Cable & Carbon Corp., 5005 Euclid Ave., Cleveland, Ohio.
5740—Sterling Clock Co., Div. of Western Clock Co., La Salle, Ill. Adv. p. 45.
5741—Sterling Electric Motors, Inc., Telegraph Rd. & Atlantic Blvd., Los Angeles, Calif.
5742—Sterling Engine Co., 1252 Niagara St., Buffalo, N. Y.
5744—Sterling Grinding Wheel Co., Tiffin, Ohio.
5747—Sterling Motor Truck Co., 45th Ave. & Rogers St. (West Allis), Milwaukee, Wis.
5748—Sterling Products Corp., 2916 N. Market St., St. Louis, Mo.
5749—Sterling Siren Fire Alarm Co., 53 Allen St., Rochester, N. Y.
5750—Sterling Varnish Co., Beaver Rd., Haysville, Pa.
5751—Stern-Brown, Inc., 257 W. 17th St., New York, N. Y.
5753—Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
5757—Stewart Iron Works Co., 1700 Madison Ave., Covington, Ky.
5758—Stewart Mfg. Co., William E., 14th & Elm Sts., Flint, Mich.
5759—Stewart Mfg. Corp., F. W., 512 W. Huron St., Chicago, Ill.
5760—Stewart Motor Corp., 93 Dewey Ave., Buffalo, N. Y. Adv. p. 22.
5761—Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
5763—Stiles-Herman Mfg. Co., 1710 Russell Blvd., St. Louis, Mo.
5764—Stimmel Winch & Machine Works, 518 W. 37th St., New York, N. Y.
5765—Stimson Co., Edwin B., 70 Franklin Ave., Brooklyn, N. Y.
5766—Stiner Piston Ring, Inc., 533 Larned St., Detroit, Mich.
5767—Stitt Ignition Co., 86 E. First Ave., Columbus, Ohio.
5771—Stokes Machine Co., F. J., 5836 Tabor Rd. (Olney), Philadelphia, Pa.
5772—Stokes Mfg. Co., A. H., W. Main & Ann Arbor R. R., Owosso, Mich.
5773—Stoll Mfg. Co., 3227 Larimer St., Denver, Colo.
5774—Storm-King Electric Corp., Dry Harbor Rd. & L. I. R. R., Glendale, L. I., N. Y.
5775—Storm Mfg. Co., 406 (N) Sixth Ave., S., Minneapolis, Minn. Adv. p. 151.
5777—Stortz & Son, John, 210 Vine St., Philadelphia, Pa.
5778—Stoughton Co. (Motor Truck Div.), Stoughton, Wis.
5779a—Stover Mfg. & Engine Co., Swartz Automotive Div., 828 S. Howard Ave., Freeport, Ill.
5781—Stowe, Jr., Geo. M., 73 Forest Ave., Buffalo, N. Y.
5782—Stow Flexible Shaft Co., 3623 Brandywine St., Philadelphia, Pa.
5783—Stow Mfg. Co., 445 State St., Binghamton, N. Y.
5784—Strand & Co., N. A., 5001 N. Lincoln St., Chicago, Ill.
5785—Straus-Frank Co., 301 S. Flores St., San Antonio, Tex.
5786—Strom Bearings Co., 4535 Palmer St., Chicago, Ill. (Sole distributors, M-R-C Bearings Service Co., 402 Chandler St., Jamestown, N. Y.)
5787a—Stromberg Motoscope Corp., 1143 Diversey Parkway, Chicago, Ill.
5788—Strom Steel Ball Co., 360 N. Michigan Ave., Chicago, Ill.
5789—Strong, Carlisle & Hammond Co., 1392 W. Third St., Cleveland, Ohio.
5791—Studebaker Corp. of America, Main & Bronson Sts., South Bend, Ind.
5792—Stunkard Bros., 24 N. Meridian St., Brazil, Ind.
5794—Sturges Mfg. Co., 2030 Sunset Ave., Utica, N. Y.
5795—Sturtevant Co., B. F., 15 Damon St. (Hyde Park), Boston, Mass.
5796—Stutz Motor Car Co. of America, Inc., Tenth St. & Capitol Ave., Indianapolis, Ind.
5797—Summers Equipment Co., 214 Lippincott Ave., Ardmore, Pa.
5800—Sunstrand Machine Tool Co., 2410 11th St., Rockford, Ill.
5801—Sunnen Products Co., 7900 Manchester St., St. Louis, Mo. Adv. p. 23.
5803—Superior Auto Fabrics Co., 2911 Indiana Ave., Chicago, Ill.
5805—Superior Body Corp., Branson & 18th Sts., Marion, Ind.
5807—Superior Insulating Tape Co., 3100 Lambkin Ave., St. Louis, Mo.
5808—Superior Machine & Engineering Co., 1930 Ferry Park, Detroit, Mich.
5809—Superior Machine Tool Co., E. Defenbaugh St., Kokomo, Ind.
5810—Superior Oxy-Acetylene Co., 4919 Connecticut Ave., St. Louis, Mo.
5811—Superior Oxy-Acetylene Machine Co., 1102 E. High St., Hamilton, Ohio.
5812—Superior Piston Ring Co., 6423 Epworth Blvd., Detroit, Mich. Adv. p. 114.
5813—Superior Rebound Control, Inc., 2905 60th St., Kenosha, Wis.
5814—Superior Running Board Mfg. Co., 111 E. 12th St., New York, N. Y.
5815—Superior Screw & Bolt Mfg. Co., E. 93rd St. & Aetna Rd., Cleveland, Ohio.
5816—Superior Seal & Stamp Co., 1401 Vermont Ave., Detroit, Mich.
5817—Superior Spring Winding Tool Co., 774 Third St., Milwaukee, Wis.
5819—Supreme Auto Trunk & Luggage Co., 653 Broadway, New York, N. Y.
5821—Surface Combustion Co., 2375 Dorr St., Toledo, Ohio.
5822—Surtin Safety Signal Co., 870 Market St., San Francisco, Calif.
5828—Swedish Crucible Steel Co., Butler Ave. & G. T. R. R., Detroit, Mich.
5831—Swing-Spout Measure Co., 3700 Mines Ave., Los Angeles, Calif.
5832—Swivel Joint & Shaft Co., Plymouth, Ind.
5833—Syntron Co., 400 N. Lexington Ave., Pittsburgh, Pa.
5834—Syracuse Gauge Mfg. Corp., 212 Bear St., Syracuse, N. Y.

T

6100—T & A Mfg. Co., Oxford St. & University Ave., St. Paul, Minn.
6101—T-Grip Chain Co., 13th & Grace Sts., Omaha, Neb.
6102—Tabor Mfg. Co., 6225 Tacony St., Philadelphia, Pa.
6103—Tacony File & Hardware Co., 2438 N. Orianna St., Philadelphia, Pa. Adv. p. 148.
6104—Taft-Peirce Mfg. Co., 32 Mechanic Ave., Woonsocket, R. I.
6107—Taylor Battery Supply Co., John, 2706 McGee Trafficway, Kansas City, Mo.
6108—Taylor Bros. Mfg. Corp., Elkhart, Ind.
6109—Taylor Instrument Companies, 95 Ames St., Rochester, N. Y.
6110—Taylor Machine Co., 1917 E. 61st St., Cleveland, Ohio.
6112—Taylor Mfg. Co., James L., 108 Parker Ave., Poughkeepsie, N. Y.
6113—Taylor Products & Mfg. Co., 26 W. Naghten St., Columbus, Ohio.
6114—Taylor Trunk Works, C. A., 678 N. Halsted St., Chicago, Ill.
6117—Teleoptic Corp., Terminal Bldg., Racine, Wis.
6118—Temco Electric Motor Co., 504 Sugar St., Leipsic, Ohio.
6119—Temme Spring Corp., 65 E. 28th St., Chicago, Ill.
6121—Temple Malleable Iron & Steel Corp., Temple, Pa.
6122—Templeton, Kenly & Co., 1026 S. Central Ave., Chicago, Ill.
6123—Tennessee Glove Co., Tullahoma, Tenn.
6124—Terrell's Equipment Co., Hall & Hilton Sts., Grand Rapids, Mich.
6125—Testrite Instrument Co., 108 E. 16th St., New York, N. Y.
6126—Texas Body & Trailer Co., 4516 Harrisburg Rd., Houston, Tex.
6127—Texas Co., 17 Battery Pl., New York, N. Y.
6128—Textileather Corp., Stickney Ave. & Dayton St., Toledo, Ohio.
6129—Thermoid Rubber Co., Whitehead Rd., Trenton, N. J. Adv. p. 15.
6129a—Theurer Wagon Works, Inc., 601 W. 56th St., New York, N.Y.
6130—Thiem Mfg. Co., 121 Fifth Ave., S., Minneapolis, Minn.
6131—Thoma Glass, Inc., 406 Depot St., Fairfield, Iowa.
6132—Thomas Clock Co., Seth, 19 W. 44th St., New York, N. Y.
6133—Thomas-Griffith Corp., Perkins & Kilgore Sts., Muncie, Ind.
6133a—Thomas Heater Co., Thomas, W. Va.
6134—Thomas Mfg. Co., W. H., 412 W. Sixth St., Spencer, Iowa.
6135—Thomas Stationery Mfg. Co., Springfield, Ohio.
6136—Thompson Co., Robert, 1015 S. Grand Ave., Los Angeles, Calif.
6139—Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago, Ill.
6140—Thompson-Owens Corp., York & Wheeling Sts., Toledo, Ohio.
6141—Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland, Ohio.
6142—Thompson & Son Co., Henry G., 277 Chapel St., New Haven, Conn.
6143—Thompson Specialties, Inc., Chandler St., Springfield, Mass.
6144—Thomson Mfg. Co., 1796 Main St., Peoria, Ill.
6144a—Thomson Mfg. Co., Judson L., Sawyer Rd., Waltham, Mass.
6145—Thomson Mfg. Co., S. H., Fourth & St. Clair Sts., Dayton, Ohio.
6146a—Threadwell Tool Co., 16 Arch St., Greenfield, Mass.
6150—Thurman Mfg. Co., 2729 Oak St., Kansas City, Mo.
6151—Tiffany Aluminum Products Co., 19th & Branch Sts., St. Louis, Mo.
6153—Tilden, Inc., S. G., 3036 Northern Blvd., Long Island City, N. Y. (Sole distributors, Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.)
6154—Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo, Ohio.
6156—Timing Gear Corp., 2801 Fulton St., Chicago, Ill.
6157—Timken-Detroit Axle Co., 400 Clarke Ave., Detroit, Mich.
6159—Timken Roller Bearing Service & Sales Co., 19th St. & Dueber Ave., S. W., Canton, Ohio. Adv. p. 83.
6160—Tingley-Reliance Rubber Corp., Ross St. & St. George Ave., Rahway, N. J.
6161—Tio-Ma Products Corp., 5100 Sweeney Ave., Cleveland, Ohio.
6162—Titchener & Co., E. H., 136 Walnut St., Binghamton, N. Y.
6163—Titeflex Metal Hose Co., 500 Frelinghuysen Ave., Newark, N. J.
6165—Tokheim Oil Tank & Pump Co., 1618 Wabash Ave., Fort Wayne, Ind.
6165a—Toledo Alloyed Castings Co., Hamilton & Division Sts., Toledo, Ohio.
6166—Toledo Pipe Threading Machine Co., 1445 Summit Ave., Toledo, Ohio.
6167—Toledo Scale Co., Monroe & Albion Sts., Toledo, Ohio.
6168—Toledo Standard Commutator Co., 2242 Smead Ave., Toledo, Ohio.
6169—Toledo Steel Products Co., 3300 Summit St., Toledo, Ohio. Adv. p. 136.
6170—Toledo Timer Co., 3118 Monroe St., Toledo, Ohio.
6171—Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston, Mass.
6172—Tolmie Mfg. Co., 143 Broadway, Cambridge, Mass.
6174—Tonneau Shield Co., 518-22 W. 57th St., New York, N. Y. Adv. p. 70.
6176—Torchweld Equipment Co., 224 N. Carpenter St., Chicago, Ill.
6177—Torrington Co., 56 Field St., Torrington, Conn. Adv. p. 82.
6178—Tot Industries of Detroit, 2270 First National Bank Bldg., Detroit, Mich. Adv. p. 54.
6179—Tower Co., A. J., 24 Simmons St., Boston, Mass.
6180—Tower Mfg. Co., Madison, Ind.
6182—Trailmobile Co., 31st & Robertson Sts., Cincinnati, Ohio.
6183—Trainor National Spring Co., Newcastle, Ind. Adv. p. 128.
6184—Trane Co., 205 Cameron Ave., La Crosse, Wis.
6185—Trautner Mfg. Co., 1042 University Ave., St. Paul, Minn.
6187—Trenton Auto Radiator Works, 626 Brunswick Ave., Trenton, N. J.
6188—Triangle Auto Spring Co., Dubois, Pa.
6189a—Trico Fuse Mfg. Co., Tenth St. & McKinley Ave., Milwaukee, Wis.
6190—Trico Products Corp., 807 Washington St., Buffalo, N. Y. Adv. p. 74.
6191—Trimont Mfg. Co., 55 Amory St. (Roxbury), Boston, Mass.
6192—Trindl Corp., Aurora & Hankes Aves., Aurora, Ill.
6193—Triple-A-Specialty Co., 2101 Walnut St., Chicago, Ill.
6194—Triplex Safety Glass Co. of North America, Clifton, N. J.
6195—Triplex Screw Co., 5300 Grant Ave., Cleveland, Ohio.
6196—Trippe Mfg. Co., 134 N. La Salle St., Chicago, Ill.
6197—Tripp Products, Inc., 450 E. Woodbridge St., Detroit, Mich. Adv. p. 68.
6198—Tropic-Aire, Inc., 71 11th Ave., N. E., Minneapolis, Minn. Adv. p. 26.
6200—Troy Sunshade Co., Troy, Ohio,

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

6203a—Trucktor Corp., 156 Wilson Ave., Newark, N. J.
6205—Trump Bros. Rubber Co., 1857 E. Market St., Akron, Ohio.
6206—Truscon Laboratories, Caniff & G. T. R. R., Detroit, Mich.
6207—Truscon Steel Co., Albert St., Youngstown, Ohio.
6208—Truth Tool Co., 711 S. Front St., Mankato, Minn. Adv. p. 163.
6209—Tsungani Piston Co., 625 E. 11th St., Tacoma, Wash.
6210—Tube Manifold Corp., 30 Letchworth St., Buffalo, N. Y.
6211—Tubular Rivet & Stud Co., 87 Lincoln St., Boston, Mass. Adv. p. 120.
6212—Tucker, W. W. & C. F., 618 Capitol Ave., Hartford, Conn.
6213—Tucker-Gilmore Mfg. Co., 1414 Del Paso Blvd., North Sacramento, Calif.
6214—Tuck Mfg. Co., 74 Ames St., Brockton, Mass.
6214a—Tuckwell, William S., 20 High St., Merrimacport, Mass.
6216—Tung-Sol Lamp Works, 95 Eighth Ave., Newark, N. J.
6216a—Turley Gear & Machine Co., 1505 N. Tenth St., St. Louis, Mo.
6217—Turner Brass Works, Sycamore, Ill.
6218—Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.
6221—Turner Warner Screw Co., 13th Ave. & Jasper St., North Kansas City, Mo.
6222—Tuthill Spring Co., 760 W. Polk St., Chicago, Ill.
6223—Twentieth Century Brass Works, 2601 E. Hennepin Ave., Minneapolis, Minn.
6224—Twentieth Century Mfg. Co., Midlothian, Tex.
6225—Twin Coach Co., Kent, Ohio.
6228—Tyler Sales Fixtures Co., Peck & Columbia Sts., Muskegon Heights, Mich.

U

6300—USL Battery Corp., Niagara Falls, N. Y.
6301—Una Welding & Bonding Co., 1615 Collamer Ave., Cleveland, Ohio.
6302—"Unico" Motor Products Corp., 4969 St. Louis Ave., St. Louis, Mo.
6303—Uniform Hood Lace Co., Indianapolis, Ind.
6304—Union Asbestos & Rubber Co., 310 S. Michigan Ave., Chicago, Ill.
6304a—Union Carbide & Carbon Corp., Carbide & Carbon Bldg., New York, N. Y. Adv. pp. 168 & 169.
6305—Union Carbide Sales Co., Carbide & Carbon Bldg., New York, N. Y.
6306—Union Chest & Cabinet Corp., 17 Hand St., Rochester, N. Y.
6307—Union Forging Co., 500 North St., Union, N. Y.
6308—Union Metal Mfg. Co., 1432 Maple Ave., N. E., Canton, Ohio.
6309—Union Screw & Mfg. Co., 207 S. Main St., Pittsburgh, Pa.
6310—Union Steel Products Co., 612 Berrien St., Albion, Mich.
6311—Union Tool Company, E. River St., Orange, Mass.
6312—Union Twist Drill Co., Athol, Mass.
6313—Unique Printed Products Co., 2224 N. 13th St., Terre Haute, Ind. Adv. p. 173.
6314—United Air Cleaner Corp., 9705 Cottage Grove Ave., Chicago, Ill.
6315—United American Metals Corp., 200 Diamond St., Brooklyn, N. Y.
6316—United Autographic Register Co., 5000 S. California Ave., Chicago, Ill.
6318—United-Carr Fastener Corp., 31 Ames St., Cambridge, Mass. Adv. p. 116.
6319—United Electrical Mfg. Co., Logan St., Adrian, Mich.
6320—United Engine & Machine Co., 507 Broadway, Fresno, Calif.
6321—United Hardware & Tool Corp., 50 Howard St., New York, N. Y.
6322—United Metal Hose Co., 724 Garrison Ave., New York, N. Y.
6323a—United Screw & Bolt Corp., Cleveland, Ohio & Chicago, Ill. Adv. p. 122.
6324—United States Air Compressor Co., 5316 Harvard Ave., Cleveland, Ohio. Adv. p. 145.
6324a—U. S. Armature Corp., 1617 S. Michigan Ave., Chicago, Ill.
6325—United States Asbestos Div. of Raybestos-Manhattan, Inc., Manheim, Pa. Adv. p. 106.
6326—U. S. Auto Lamp Mfg. Co., 509 W. 56th St., New York, N. Y.
6328—U. S. Axle Co., Water St., Pottstown, Pa. Adv. p. 79.
6329—U. S. Body & Forging Co., 135 Tonawanda St., Buffalo, N. Y.
6330—United States Chain & Forging Co., Union Trust Bldg., Pittsburgh, Pa. Adv. p. 39.
6331—U. S. Electrical Mfg. Co., 200 E. Slauson Ave., Los Angeles, Calif.
6332—United States Electrical Tool Co., 2483 W. Sixth St., Cincinnati, Ohio. Adv. p. 17.
6333—United States Electric Appliance Corp., 338 Broadway, Denver, Colo.
6336—United States Gauge Co., 44 Beaver St., New York, N. Y.
6337—United States Glass Co., Ninth & Bingham Sts., Pittsburgh, Pa.
6338—U. S. Hammered Piston Ring Co., E. Railway & Kentucky Aves., Paterson, N. J.
6339a—United States Machine Tool Co., 1950 W. Sixth St., Cincinnati, Ohio.
6340—U. S. Mica Mfg. Co., 1521 Circle Ave., Forest Park, Ill.
6343—U. S. Reamer & Tool Corp., 3191 Casitas Ave., Los Angeles, Calif.
6344—United States Rubber Co., 1790 Broadway, New York, N. Y.; also Detroit, Mich. Adv. p. 111.
6344a—U. S. Rubber Specialty Co., 159 Hamilton Ave., Trenton, N. J.
6345—United States Sand Paper Co., 1560 Memorial Ave., Williamsport, Pa.
6346—U. S. Seat Cover Co., Kankakee, Ill.
6347—United States Spring & Bumper Co., 1120 S. Los Angeles St., Los Angeles, Calif.
6350—United Vacuum Appliance Corp., Columbia Ave., Connersville, Ind.
6351—United Wheel & Rim Co., 1351 Niles Ave., Warren, Ohio.
6352—Unity Lap Robe Mfg. Co., 49 E. 21st St., New York, N. Y.
6353—Unity Mfg. Co., 2909 Indiana Ave., Chicago, Ill.
6354—Universal Armature Corp., 87 Broadway, Cambridge, Mass.
6355—Universal Battery Co., 3410 S. La Salle St., Chicago, Ill.
6358—Universal Circular Gauge Co., 1014 Howard St., San Francisco, Calif.
6361—Universal Endless Belt Co., College St., North Vernon, Ind.
6362—Universal Gear Shift Corp., 150 Munson St., New Haven, Conn.
6364—Universal Industrial Corp., 787 Main St., Hackensack, N. J.
6370—Universal Steel Products Co., 177 Stillman St., San Francisco, Calif.
6374—Utica Drop Forge & Tool Co., 2409 Whitesboro St., Utica, N. Y.
6375—Utility-Strate Mfg. Co., 105 Glasgow Ave., Fort Wayne, Ind. Adv. p. 157.
6376—Utility Supply Co., E. 12th St., Clintonville, Wis.
6377—Utility Trailer Mfg. Co., P. O. Box 1407, Arcade Sta., Los Angeles, Calif.

V

6452—Vacuum Oil Co., 122 E. 42nd St., New York, N. Y.
6453—Valentine & Co., 386 Fourth Ave., New York, N. Y.
6454—Valley Electric Corp., 4221 Forest Park Blvd., St. Louis, Mo.
6456—Van Cleef Bros., Woodlawn Ave., 77th to 78th St., Chicago, Ill.
6458—Vanderman Mfg. Co., Mansfield Ave., Willimantic, Conn.
6458a—Van Doorn Co., 319 N. Third St., Quincy, Ill.
6459—Van Dorn Electric Tool Co., 3000 Woodhill Rd., Cleveland, Ohio.
6460—Van Dorn Iron Works Co., 2685 E. 79th St., Cleveland, Ohio.
6461—Van Norman Machine Tool Co., 160 Wilbraham Ave., Springfield, Mass. Adv. p. 149.
6463—Van Schaack & Sons, Peter, 310 W. Washington St., Chicago, Ill.
6464—Van Sicklen Corp., Bluff City Blvd., at Raymond St., Elgin, Ill.
6465—Van Tine, C. C., 325 Keeler St., Bartlesville, Okla.
6466—Van Wheel Corp., 218 Liberty St., Oneida, N. Y.
6469—Vatco Mfg. Co., 19 Deerfield St., Boston, Mass.
6470—Vaughan & Bushnell Mfg. Co., 2114 Carroll Ave., Chicago, Ill.
6471—Vedoe-Peterson Co., 22 Fayette St., Norfolk Downs, Mass.
6472—Veeder-Root, Inc., 22 Sargeant St., Hartford, Conn. Adv. p. 138.
6475—Vellumoid Co., 54 Rockdale St., Worcester, Mass. Adv. p. 100.
6476—Vesta Battery Corp., 6501 W. 65th St., Chicago, Ill.
6477—Vesuvius Graphite Corp., 168 N. May St., Chicago, Ill.
6478—Vickers Mfg. Co., 690 Territorial Rd., Benton Harbor, Mich.
6480—Victor Mfg. & Gasket Co., 5750 Roosevelt Rd., Chicago, Ill. Adv. p. 99.
6482—Victor Piston Pin Co., 115 N. Noble St., Indianapolis, Ind.
6483—Victor Products Corp., 2635 Belmont Ave., Chicago, Ill.
6484—Victor Rubber Co., Springfield, Ohio. Adv. p. 50.
6485—Victor Saw Works, Middletown, N. Y.
6487—Victor Welding Equipment Co., 844 Folsom St., San Francisco, Calif.
6488—Victory Ring Compressor Co., 1603 S. Michigan Ave., Chicago, Ill.
6489—Village Blacksmith Folks, Watertown, Wis.
6491—Vim Tool Co., 515 N. Seventh St., Minneapolis, Minn.
6492—Vincent Steel Process Company, 2434 Bellevue Ave., Detroit, Mich.
6495—Vitek Mfg. Co., 2606 St. Marys Ave., Omaha, Neb.
6497—Vlchek Tool Co., 3018 E. 87th St., Cleveland, Ohio.
6498—Vogt Mfg. Corp., 100 Fernwood Ave., Rochester, N. Y.
6500—Volker & Co., William, Third & Main Sts., Kansas City, Mo.
6502—Vortox Mfg. Co., 121 S. Alexander Ave., Claremont, Calif.
6503—Vosbikian Bros. & Co., 180 W. Oxford St., Philadelphia, Pa.
6505—Vulcan Varnish Co., 1108 W. Main St., Louisville, Ky.
6506—Vulcan Wheels, Inc., Ave. L & Thornton St., Newark, N. J.

W

6551—Wadell Engineering Co., 354 Mulberry St., Newark, N. J.
6553—Wagner Electric Corp., 6400 Plymouth Ave., St. Louis, Mo.
6554—Wagner Mfg. Co., Cedar Falls, Iowa.
6556—Wahl Trunk Co., 600 Randall St., Eau Claire, Wis.
6557—Wakefield All-Steel Wrench Co., 89 Exchange St., Worcester, Mass.
6558—Walcott Machine Co., Jackson, Mich.
6559—Wald Mfg. Co., Maysville, Ky.
6560—Walker Mfg. Co., Michigan & Hamilton Sts., Racine, Wis.
6561—Walker Products Co., 3767 Moneta Ave., Los Angeles, Calif.
6562—Walker Vehicle Co., 101 W. 87th St., Chicago, Ill.
6563—Wallace Co., Hugh, 2616 E. Grand Blvd., Detroit, Mich.
6565—Wallace Supplies Mfg. Co., 1310 Diversey Parkway, Chicago, Ill.
6566—Wall Mfg. Supply Co., P., 3126 Preble Ave., N. S., Pittsburgh, Pa.
6567—Walsh Press and Die Co., 4709 W. Kinzie St., Chicago, Ill.
6568—Walter Machine & Screw Co., 500 Bellevue Ave., Detroit, Mich.
6569—Walter Motor Truck Co., Queens Blvd. & 37th St., Long Island City, N. Y.
6570—Waltham Watch Co., Waltham, Mass.
6572—Ward-LaFrance Truck Corp., Elmira, N. Y.
6573—Ward Leonard Electric Co., South St., Mt. Vernon, N. Y.
6574—Ward Motor Vehicle Co., 718 S. Fulton Ave., Mt. Vernon, N. Y.
6575—Warford Corp., 44 Whitehall St., New York, N. Y.
6576—Warner Elevator Mfg. Co., 2613 Spring Grove Ave., Cincinnati, Ohio.
6577—Warner Gear Co., Clerk and Penn Sts., Muncie, Ind. Adv. p. 28.
6580—Warner-Patterson Co., 920 S. Michigan Ave., Chicago, Ill.
6581—Warren Mfg. Co., J. D., 208 W. Washington St., Chicago, Ill.
6582—Warren Tool & Forge Co., 418 Griswold St., Warren, Ohio.
6584—Warshawsky & Co., 1915-35 S. State St., Dept. CCD-7, Chicago, Ill. Adv. p. 119.
6586—Washburn Co. (Wire Goods Division), 28 Union St., Worcester, Mass.
6586a—Washburn Mfg. Co., Kokomo, Ind.
6589—Waterbury Steel Ball Co., Poughkeepsie, N. Y.
6590—Waterloo Bodies, Inc., Waterloo, N. Y.
6592—Waterous Co., 80 E. Fillmore Ave., St. Paul, Minn.
6593—Watervliet Tool Co., 1031 Broadway, Albany, N. Y.
6596—Watson Company, John Warren, Bridge St. & P. R. R., Philadelphia, Pa.
6597—Watts-Morehouse Mfg. Corp., 2322 E. Michigan Ave., Jackson, Mich. Adv. p. 69.
6599—Waukesha Motor Co., 960 St. Paul Ave., Waukesha, Wis.
6600—Wausau Abrasives Co., 32 S. Clinton St., Chicago, Ill.
6601—Wausau Iron Works, Wausau, Wis. (Sole distributors, Hi-Way Service Corp., Wisconsin Ave. & 38th St., Milwaukee, Wis.)

Digitized by Google

MANUFACTURERS OF AUTOMOTIVE PRODUCTS—Continued

6602—Wausau Motor Parts Co., 125 W. Washington St., Wausau, Wis.
6604—Wayne Company, Tecumseh & Cochran Sts., Fort Wayne, Ind.
6605—Wayne Tool Mfg. Co., 274 N. Franklin St., Waynesboro, Pa.
6608—Weatherhead Co., 632 Frankfort Ave., N. W., Cleveland, Ohio.
6609—Weatherproof Body Corp., 480 Shiawassee St., Corunna, Mich. Adv. p. 35.
6610—Weaver Brothers Co., 416 Lawrence Ave., Adrian, Mich.
6611—Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
6612—Weber Auto Accessory Co., 210 Sylvan Ave., Newark, N. J.
6615—Wedler-Shuford Co., 1116 S. Grand Blvd., St. Louis, Mo.
6616—Weidenhoff, Inc., Joseph, 4358 W. Roosevelt Rd., Chicago, Ill.
6618—Weikert, Wm. P., McKnightstown, Pa.
6619—Weil-Ransom Co., 816 Fulton St., Chicago, Ill.
6621—Welded Products Mfg. Co., 2203 Kirkwood Ave., Cudahy, Wis.
6622—Weldit Acetylene Co., 638 Bagley Ave., Detroit, Mich.
6625—Wel-Ever Piston Ring Co., Speilbusch Ave., near Jackson, Toledo, Ohio. Adv. p. 115.
6626—Welker-Hoops Mfg. Co., 1 Water St., Middletown, Conn.
6627—Wellman Bronze & Aluminum Co., 6017 Superior Ave., Cleveland, Ohio.
6628—Wellman Co., S. K., 1381 E. 49th St., Cleveland, Ohio.
6629—Wellman Engineering Co., 7000 Central Ave., Cleveland, Ohio.
6629a—Wells & Co., A. H., 563 Watertown Ave., Waterbury, Conn.
6630—Wells Mfg. Co., Box 613, Greenfield, Mass.
6631—Wells Mfg. Co., 114 S. Brooke St., Fond du Lac, Wis.
6632—Wellston Mfg. Co., 200 W. Second St., Wellston, Ohio.
6634—Welworth Automotive Corp., Bush Terminal Bldg., Brooklyn, N. Y.
6637—Wensley Metal Products Co., 1445 Osage St., Denver, Colo.
6638—Wentworth & Irwin, 327 Oregon St., Portland, Ore.
6639—Wenzel Tent & Duck Co., H., 1035 Paul St., St. Louis, Mo.
6640—Wertsch Co., Wm., 24 Page St., San Francisco, Calif.
6642—Wesbar Corp., West Bend, Wis.
6642a—West Bend Aluminum Co., West Bend, Wis.
6643—Westcott Chuck Co., 316 E. Walnut St., Oneida, N. Y.
6643a—Western Aluminum Foundries, 760 23rd Ave., Oakland, Calif.
6644—Western Automatic Machine Screw Co., Elyria, Ohio.
6646—Western Cable & Light Co., Baldwin, Wis.
6647—Western Chain Products Co., 1807 Belmont Ave., Chicago, Ill.
6648—Western Clock Co., La Salle, Ill.
6649—Western "Dri-Kure" Vulcanizer Mfg. Co., 908 W. Pico St., Los Angeles, Calif.
6651—Western Felt Works, 4031 Ogden Ave., Chicago, Ill.
6652—Western Gear Co., Morgan at Lake St., Chicago, Ill.
6653—Western Gear Works, 417 Ninth Ave., S., Seattle, Wash.
6654—Western Iron & Foundry Co., 702 E. Second St., Wichita, Kan.
6656—Western Oil Pump & Tank Co., 2437 Kosciusko St., St. Louis, Mo.
6657—Western Rawhide & Belting Co., 901 Winnebago St., Milwaukee, Wis.
6658—Western Screw-Products Co., Main & St. George Sts., St. Louis, Mo.
6659—Western Shade Cloth Co., 22nd & Jefferson Sts., Chicago, Ill.
6660—Western Tool & Mfg. Co., E. Pleasant St., Springfield, Ohio.
6662—Western Wire Products Co., 324 S. Third St., St. Louis, Mo.
6663—Westinghouse Air Brake Co. (Wilmerding), Pittsburgh, Pa.
6664—Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa. Adv. p. 146.
6665—Westinghouse Lamp Co., 150 Broadway, New York, N. Y.
6667—Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark, N. J.
6668—Westport Mfg. Co., Westport, Mass.
6670—West Steel Casting Co., 805 E. 70th St., Cleveland, Ohio.
6671—West Tire Setter Co., 255 Mill St., Rochester, N. Y.
6671a—Westwood Lumber & Veneer Co., 1717 W. Pershing Rd., Chicago, Ill.
6672—Wetzig Mfg. Co., 2600 Fletcher St., Chicago, Ill.
6673—Weymouth Art Leather Co., East Weymouth, Mass.
6674—Whalen-Noxon Lamp Corp., 241 W. Adams St., Syracuse, N. Y.
6675—Wheeler Mfg. Co., 4673 Alger St., Los Angeles, Calif.
6676—Wheeler-Schebler Carburetor Co., Sanders St. & Barth Ave., Indianapolis, Ind.
6677—Wheel Parts & Mfg. Co., 1840 S. Michigan Ave., Chicago, Ill.
6678—Whitaker Battery Supply Co., 1301 Burlington Ave., North Kansas City, Mo.
6679—Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill. Adv. p. 148.
6680—Whitcomb Wheel Co., 1911 65th St., Kenosha, Wis.
6681—White, J. M., 1116 Olive St., Philadelphia, Pa.
6683—White Co., O. C., 17 Herman St., Worcester, Mass.
6684—White Dental Mfg. Co., S. S. (Industrial Div.), 152 W. 42nd St., New York, N. Y.
6685—Whitehead & Kales Co., River Rouge Pl., Detroit, Mich.
6686—Whitehouse Mfg. Co., 42 Elm St., Newark, N. J.
6689—White Machine Works, 740 Wisconsin St., Eau Claire, Wis.
6691—White Motor Co., 842 E. 79th St., Cleveland, Ohio.
6694—Whiting-Adams Co., 690 Harrison Ave., Boston, Mass.
6695—Whiting Corp., 157th & Lathrop Sts., Harvey, Ill.
6696—Whiting Leather & Belting Co., 504 Jackson Ave., Long Island City, N. Y.
6697—Whitman & Barnes, Inc., 2108 W. Fort St., Detroit, Mich.
6699—Whitney Mfg. Co., 237 Hamilton St., Hartford, Conn. Adv. p. 211.
6701—Whitney Metal Tool Co., 110 Forbes St., Rockford, Ill.
6702—Whiton Machine Co., 190 Howard St., New London, Conn.
6703—Whittelsey Mfg. Co., Howard & Spruce Sts., Bridgeport, Conn.
6704—Whittemore Stamping Co., R. L. S., 31 N. Foster St., Worcester, Mass.
6705—Wichita Falls Motors Co., Wichita Falls, Tex.
6710—Wiese & Co., Wm., 234 W. 56th St., New York, N. Y. Adv. p. 44.
6711—Wiesenmeyer, C. F., 419 E. Washington St., Springfield, Ill.
6717—Wilcox-Rich Corp., 9771 French Rd., Detroit, Mich. Adv. p. 137.
6719—Wilder Co., M. B., 2012 Farnam St., Omaha, Neb.
6723—Wilkening Mfg. Co., 15th & Mt. Vernon Sts., Philadelphia, Pa.
6725—Wilkens Mfg. Corp., 50 Orawaupum St., White Plains, N. Y.
6725a—Willard Rubber Co., 2320 Newton Ave., San Diego Calif. (Sole distributor, Siltop Mfg. Co., 1241 N. Vine St., Los Angeles, Calif.).
6726—Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
6727—Willgood Mfg. Co., Washington, Pa.
6728—Williams Bros. Co., 3077 Jasper St., Philadelphia, Pa.
6729—Williams & Co., C. K., 640 N. 13th St., Easton, Pa.
6730—Williams & Co., J. H., 75 Spring St., New York, N. Y.
6731—Williams & Miller Gin Co., Elk City, Okla.
6733—Williams Products Co., H. E., 100 S. Main St., Carthage, Mo.
6734—Williams & Sons, I. B., 9 Orchard St., Dover, N. H.
6735—Williams Valve Co., D. T., Spring Grove Ave. & Township St., Cincinnati, Ohio.
6737—Willits Mfg. Co., 7805 Atlantic Ave., Atlantic City, N. J. (Sole distributors, P. & D. Mfg. Co., 38-02-10 22nd St., Long Island City, N. Y.)
6738—Will Motors Corp., C. H., 60 11th Ave., N. E., Minneapolis, Minn.
6741—Willson Products, Inc., Second & Washington Sts., Reading, Pa.
6742—Willys-Overland, Inc., Walcott Blvd., Toledo, Ohio. Adv. p. 20.
6744—Wilmington Fibre Specialty Co., Wilmington, Del.
6745—Wilson, K. R., 10 Lock St., Buffalo, N. Y.
6746—Wilson-Imperial Co., 115 Chestnut St., Newark, N. J.
6747—Wilson Rubber Co., 1216 Garfield Ave., Canton, Ohio.
6748—Wilson Truck Mfg. Co., Henderson, Iowa.
6750—Winchester Repeating Arms Co., 275 Winchester Ave., New Haven, Conn.
6752—Windsor Corp., 4400 N. Main St., St. Louis, Mo.
6753—Winfield Carburetor Co., 3053 Treadwell St., Los Angeles, Calif.
6754—Wing Mfg. Co., L. J., 154 W. 14th St., New York, N. Y.
6755—Winter Brothers Co., Kendrick St., Wrentham, Mass.
6756—Winterhoff Tool & Machine Co., 112 S. Elkhart Ave., Elkhart, Ind.
6757—Winter Stamping Co., 221 W. Washington St., Goshen, Ind.
6758—Wisconsin Machinery & Mfg. Co., 52nd St. & Beloit Rd., Milwaukee, Wis.
6759—Wisconsin Motor Co., 44th Ave. & Burnham St., Milwaukee, Wis.
6763—Wittek Mfg. Co., 4305 W. 24th Pl., Chicago, Ill. Adv. p. 88.
6765—Witt-Will Co., 52 N St., N. E., Washington, D. C.
6766—Wodack Electric Tool Corp., 4627 W. Huron St., Chicago, Ill.
6767—Wold Air Brush Mfg. Co., 2173 N. California Ave., Chicago, Ill.
6771—Wolverine-Empire Refining Co., 51 Madison Ave., New York, N. Y. Adv. p. 76.
6771a—Wolverine Enameling Div., Parker Rust Proof Co., 5203 Martin Ave., Detroit, Mich.
6772—Wolverine Tube Co., 1411 Central Ave., Detroit, Mich.
6773—Wonder-Mist Polish Co., 130 Essex St., Melrose, Mass.
6773a—Woodall Industries, Inc., 7567 Six Mile Road, Detroit, Mich.
6774—Woodall Tool Co. 75 N. 18th St., Holland, Mich.
6776—Wood Co., W. A., 373 Atlantic Ave., Boston, Mass.
6778—Woodhouse Chain Works, Third & Schenck Sts., Trenton, N. J.
6779—Wood Hydraulic Hoist & Body Co., 7958 Riopelle St., Detroit, Mich.
6780—Woodison Co., E. J., 7415 St. Aubin St., Detroit, Mich.
6783—Woodruff & Sons Co., Walter W., Mt. Carmel, Conn.
6785—Woodward Mfg. Corp., Austin, Tex.
6787—Woodworth Specialties Co., 121-25 Montgomery St., Binghampton, N. Y. Adv. p. 42.
6789—Woolsey Paint & Color Co., C. A., 500 Grand St., Jersey City, N. J.
6790—Woolwine Metal Products Co., Atlantic Blvd. & Riverside Drive, Los Angeles, Calif.
6791—Wooster Brush Co., Wooster, Ohio.
6792—Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.
6793—Worcester Gear Works, 18 Grafton St., Worcester, Mass.
6794—Worcester Taper Pin Co., 47 Lagrange St., Worcester, Mass.
6795—World Bestos Corp., 52 Courtland St., Paterson, N. J.
6795a—World Motor Co., 3289 Spring Grove Ave., Cincinnati, Ohio.
6796—Woven Steel Hose & Rubber Co., Dale St., Trenton, N. J.
6797a—Wright & Corson Co., Post Rd., Milford, Conn.
6797b—Wright Cover Mfg. Co., 1411 S. Michigan Ave., Chicago, Ill.
6798—Wright Machine Co., Owensboro, Ky.
6799—Wright Mfg. Co., 929 Connecticut Ave., Bridgeport, Conn.
6801—Wright Textile Co., Jasper & Orleans Sts., Philadelphia, Pa.
6803—Wubco Battery Co., Swissvale, Pa.

Y

6806—Yale Mfg. Co., 49 Amsterdam Ave., New York, N. Y.
6808—Yale & Towne Mfg. Co., 200 Henry St., Stamford, Conn.
6810—Yankee Metal Products Corp., 460 W. 34th St., New York, N. Y.
6811—Yellow Jack-it Mfg. Co., 211 N. Green St., Chicago, Ill.
6812—Yerdon, Wm., Main & Centre Sts., Fort Plain, N. Y.
6814—Yoder-Morris Co., 5500 Walworth Ave., Cleveland, Ohio.
6814a—York Corrugating Co., Adams St. & W. Md. R. R., York, Pa.
6815—York Hoover Body Corp., York, Pa.
6816—York Tack & Nail Works, York, Pa.
6817—Yost Mfg. Co., S. Main St., Meadville, Pa.
6818—Yost Superior Co., Shuey Bldg., Springfield, Ohio.
6819—Young Radiator Co., 709 Mead St., Racine, Wis.
6819a—Youngstown Steel Car Corp., Hunter St., Niles, Ohio.

Z

6820—Zagora Machine & Parts Co., J., 1225 S. Mint St., Charlotte, N. C.
6821—Zamboni & Sons, C., 301 N. Cedar St., Owatonna, Minn.
6822a—Zenite Metal Co., 201 N. West St., Indianapolis, Ind.
6823—Zenith-Detroit Corp., Foot of Hart Ave., Detroit, Mich.
6825—Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.
6827—Zip Abrasive Co., Washington & Center Sts., Cleveland, Ohio.
6830—Zoerman-Clark Mfg. Co., 219 W. Huron St., Chicago, Ill.
6832—Zyle Ware Corp., 181 Eighth St., Long Island City, N. Y.

Digitized by Google

TRADE NAMES

HOW TO USE THIS LIST

When the Trade Name is known, and the name and address of the manufacturer are wanted—

1. Find the Trade Name in its alphabetical order in this list. Note its Number.
2. Turn to numerical list of all manufacturers starting page 400. Find your number in its proper place—alongside it will be the name and address of manufacturer you want.
3. Where two or more products of different manufacturers bear the same Trade Name, the product is listed after each trade name to help identification.
4. Trade Names which are the same as the first word or two of the manufacturers' names, and therefore easily associated, are not included in this list. If trade name does not appear here, look for the same name in the complete numerical list of all manufacturers, arranged alphabetically also, starting on page 400.

A-A 93
AAA 275
A.B.C. (*cabs*)....1196
A.B.C. (*trailers*).5665
ABC (*brushes*)... 138
A-B-Z 265
A-C 107
A-C-F 141
A.C.F.-Hall-Scott 4
A.E.S. 4317
A-1 338
APW 178
A.R.C. 242
A-S-E 114
A.T.B. 341
A-Y-A 44
Aabs 4300
Abesco 667
Acadia 6651
Acco 142
Accuratime 4030
Ace (*access.*)....1337
Ace (*bat. parts*).. 161
Ace (*brake lining*) 5214
Ace (*brushes*) ...3002
Ace (*jigs*).....3140
Ace (*pumps*).... 723
Ace-Aero 6131
Ace-Ite 161
Acme (*cur. cutouts*) 5626
Acme (*washers, stor. tanks*) ..2051a
Acorn (*belting*).. 763
Acorn (*pump con.*)5753
Adamant (*bearing metals*) 3762
Adamant (*decalcomanias*) 4614
Ad-Awning 1651
Adco 149
Ad-el-ite (*lacquers, paint removers*) 38
Adequate 3426
Adheso 2746
Adpasco 49
Advance 3781
Ad-Vr-Ti-Zr ... 208
Aermore 2158
Aetna 3727
Aff Peerless 56
Agasote 4618
Agrippa 6730
Airace 2394
Airbestos 5457
Airco 67
Airco-Davis-Bournonville 67
Airco-National ... 67
Air-Dor 3874
Airdraulic 4530
Air-Flate 277
Air Furnace.....2843
Air Lec 5459
Airo 3208
Airspring 2838
Air-Tite 3057
Airubber 4305
Ajax (*chisels*)... 726
Ajax (*curtain fasteners*) 3857
Akbar 3289
Akro Blak 78
Akron-Williams ...4233a
Akros 78
Ala 2855
Alabestos 1263
Alaskan 2350
Alcoa 120
Alco Cyco 166
Alco De Luxe... 166
Alco Hexo 166
Alco No. 12..... 166
Alemite - Carborosolve 86
Alemite-Electrogun 86
Alemite-Vesuvius 86
Alert 165
Alfatan 1183
Alfite 165
Alfoam 165
Allen Portometer. 100
Allen Portostat... 100
Alligator 2087
All-In-One (*elec. condensers*) ...4317
All-In-One (*vulcanizers*) 3894
Allova 4002
All-Service 3426
All Steel (*Trunks*) 4747
Allsteel (*bodies, hoists*) 2307
Alltraffic 1672
All Weather (*tires*) 2416
Allweather (*fire ext.*) 165
All-Weld 3870
Almanc 94
Aloxite 1031
Alpha 4626
Alpo 124
Alten 3138
Alternarc 1856
Alumino 131
Aluminox 152
Alustrium 1588
Always Ready (*jacks*) 5562
Always Ready (*wrenches*) ...6730
Always Reliable . 626
Amalie 5625
Ambesco 130
Ambler 3234
Ambler Autobestos 3234
Amco (*access., tools*) 35
Amco (*wings*)... 163
American (*air or water stations, wrenches*) 4741
American (*belting*) 3128
American (*files, rasps*) 4314
American-Akron .2062
American Auster.6174
American-Beauty .1648
American Brakebloks 137
American-La-France 3409a
Ames 2701
Aminco 164
Ammco 336
Amo 337
Ampco 172
Am-Pe-Co 169
Anchor 3027
Anco 208
Anderson-Ajax .. 210
Androck 6586
Angelus 4628
Ankorite 204
Anti-Theft 357a
Any-Lite 5823
Apex (*piston rings*).....6144
Apollo 1553
Arapahoe 740
Arcade 4314
Arco 5617
Arco Wand 237
Arcus 4292
Argyll 1272
Arico 160
Ariel 4292
Aristocrat (*fire ext.*) 5617
Aristocrat (*license frames & holders*) 2129
Aristocrat (*instrument board panels*) 1651
Aristocrat (*monograms*) 3955
Arkay 3350
Armorcote 244
Armorlac 244
Ar-Nu 241
Arrow (*fire ext.*).5617
Arrow (*spark plugs*) 5079
Arrow Head (*shafts*) 2104
Arrowhead (*undercoats*) 1186
Art Relief.....3868
Arvin 4326
A-Sawco 266
Asbesgraphite ...2325
Asbestex 267
Asbestopak 2047
Asco 2735
Ashco 2694
Atlas 5401
Atsco 69
Attach-O-Wipe .. 131
Aurora (*drilling mch.*) 4514
Aurora (*heaters*) 2108
Australian 621
Auto 4292
Autocrat (*bushings*) 6315
Autocrat (*goggles*) 192
Autocrat (*tires*)..3706
Autofan 331
Autoglass 5624
Auto Knits.....1184
Auto-Lite 1857
Autoloc 5593
Autom 343
Auto Niblick 2694
Auto-Pep 6113
Autoreelite 229
Autorobe 5515
Autosan 1227
Autoscreen 307
Aut-O-Sek 5497
Autoshade 6733
Auto Start 6331
Auto Top Seal...5632
Auto-Tour 1157
Auto-Vac 1842
Au-Ve-Co 360
Au-Ve-Colite ... 360
Avee 196
Avenue Brand ..6797b
Avery 3913
Avigo 1873
Awebco 205
Ayanbee 5482
Aztec 267

B 2418
BA 519
B/B 620
B/C 586
B & C 603
B-K 710
B.K.F. 5130
B.M.S. 736
B-N 800
B & R (*bat. rep. tools*) 812
B & R (*paints*)..2144
B-P 2116
Babco 570
Babcock 165
Babinmoss 505
Bagnall 5813
Bair 356
Bakatax 528a
Balcrank 1141
Ball & Ball 4652
Banner Blue ...3891a
Barlow 3709
Barrett 1643
Basco 727
Bat 5105
Bayonne 704
Beacon-Lite 573
Bear 6790
Bear Brand 1827
Bedrock 6696
Beech 3986
Bee Hive 3978
Bee-Jay 2623
Bendix 1832
Benford 2053
Benlock 5214
Bennett (*oil cups, covers*) 568
Bennett (*pumps, tanks*) 5510
Bennett Eco 5510
Bennett Shotwell. 5510
Berloy 622
Berryloid 627
Besco 559
Bestex 267
Best-O-Seal 5425
Bethlehem 5655
Better 4270
Better Built (*bearings*) 764
Better Built (*cushions*).....2421
Bevoyl 5123
Biflex 2354
Bi-Focal 6216
Big Ben 2855
Big Boss 3155
Big Boy 1505
Big Chief 3540
Bilt-Well 714
Bingo 720
Birmingham 2422
Birtank 650
Black Bear 5031
Black Beauty ...1039
Black Bird 3151
Black Diamond ..1653
Black Hawk (*brake lining*) 5633
Blackhawk (*automobiles*) 5796
Blackstone 3469
Blake 4766
Blakes 2454
Blind Man 5116
Block, Jr. 6825
Blue-Bird (*pumps*) 2700
Blue Bird (*tire chain tools*).... 623
Blue Boy 1237
Blue Edge 6796
Blue Label 4362
Blue Point 4003
Blue Print.....2116
Blue Ribbon 3046
Blu-Wite 6216
Bodyfill 2017
Bolens 2379
Bo-Peep 1543
Borolon 11
Boss (*bodies*)....141a
Boss (*clocks*)....1842
Boufra 694
Bowden 2480
Bowen 2711
Boxco 701
Boyce Moto-Meter 3992
Boyco 704a
Brake-ite 3817
Branford 3767
Brasbestos 2038
Braz-Cast 222
Break-Not 1842
Breeze Filter 84
Breeze Flexmet .. 718
Bright 6582
Brite-Lite (*glass windows*) 3520
Brite-Lite (*trouble lamps*) 4230
Broadway 4692
Brown (*reflectors*) 3759
Brown (*tire rep. mch.*) 532
Brownie (*mattresses*) ..3862
Brownie (*spring oilers*) 754
Brude 2809
Buckeye 3420
Budd-Michelin .. 770
Buddy 2855
Buffalo 1649
Bull Dog (*dressing*) 3030
Bull Dog (*mats, hose, tape*).... 693
Bull Dog (*parts, access.*) 3104
Bull Dog (*vises*).4766
Bull Dog (*wrenches*) ...6730
Bulldog (*brake lining*) 5214
Bull-Pup 726
Burd-Ox 792
Burmaline 808
Buss 816
Button-On 338
Buxco 820
Buzzer 2793

C-A 42
C & B.....1165
C.C.C. 1099
C F 1034
CG 2354
C & J 1046
C J B 60
C & L 313a
C-M 1134
C.O.T. 6160
C.O.T. Gum Gum 6160
CP 1123
C & S 1207
C & T 1076
C-T-K 1132
Cadet 6642a
Camel Hitch 1018

Digitized by Google

TRADE NAMES—Continued

Campbell (*cotter pins*) 142
Campbell (*shutters tire covers*) ...3027
Campbell (*tire chains*) 3040
Canco 139
Cantilever 6108
Capillary 5671
Capitol 3026
Captor 5671
Carbic (*calcium carbide*) 6305
Carbic (*welding mch.*) 4565
Carbolite (*calcium carbide*) 6305
Carbolite (*grinding wheels*) 152
Carbonite 2336
Carbon-No 70
Carbonox 4347
Cardinal 2074
Carrcohyde 1045
Carrocork 2047
Car-Testometer ..3857
Cartridge 6750
Casco 5432
Castorol 1108
Catseye 1233
Cavalier 2412
Cee Tee Co.....1324
Cel-O-Finish 38
Celoron 1270
Century 6223
Certified 1904
Cesco 1115
Chaco 1090
Challenge (*belts, lining, straps*)..5598
Challenge (*luggage carriers*) .1905
Challenge (*oil dispensers*) 6586
Chamoline 6463
Champion (*batteries*) 1892
Champion (*casters*) 2621
Champion (*pumps*) 3151
Champion (*tools*) .6660
Champion (*tool boxes*) 6108
Champion (*trailers, winches*) 4031
Champion (*trunks*) 2319
Chanson 3010
Chartreuse 2809
Chase Drednaut..5055
Chase Leatherwove ..5433
Chase Velmo ...5433
Check All 4619
Chemo 4025
Cheney 4766
Chicago 1346b
Chicago King ...4757
Childs 165
Chroline 1183
Cig-Out 1557
Cinch Flush Type.1139
Cincinnati 678
Circle Ess 5759
Clarion 163
Clearsite 131
Clearview 2132
Clear-Vision 131
Cleco 1179
Cleflex 1177
Cle-Forge 1185
Cletan 1183
Cleveco 1186
Cleveweld 1187
Climax 6586
Clinch-Core 5041
Clipper 1591
Close Down 2722
Clover Leaf 1039
Cocheco 6734
Cole 5092
Colonial (*leather*) 1809
Colonial (*lever balls & extensions*) 2396
Colossus 5115
Columbus 2360
Colvin 2454
Combine 3128
Comet 4303
Comfoot 5592
Comfy (*back rests*)4308
Comfy (*step plates*) 6218
Commerce 5085
Common-Sense (*ventilators, window reg.*) 20
Commonsense (*tool kits*).....6679
Conaphore 1297
Conco 1254
Concord 8
Con-Den-So-Meter 311
Connell 749
Connersville 6350
Conqueror 31
Consol 1262
Consolco 1263
Conventional 4242
Copperhead 2158
Cord 298
Correct Measure..1300
Correct-O-Meter .1300
Courtesy 1648
Cowdrey 610
Craftsman 3340
Crescent (*burners*)3293
Crescent (*solder*).4337
Crescent (*valves*) 4749
Crescentart 1323
Critchley 1076
Crouse 1169
Crown 723
Crystal Bay 3921
Cub 3512
Curtex 1344
Curvex 4758
Custom-Bilt 2058
Cutrite 3921
Cyclone (*pumps*).3151
Cyclone (*washers*)4036
Cyclone (*wrenches*) ...6208
Cyclone-WSM ...5430
Cy-Lent 6156
Cylolator 3998

D & B 1504
D-D 1589
D.L.M.F. 3498
D.W. 2690
Daco 1568
Dagmar 3938
Daisy (*horns*)...1800
Daisy (*pumps*)...5178
Dall 799
Dandee 2773
Dan-D-Karrier ..3409
Dandy 5191
Daraike 5034
Darsie 3759
Davisbilt 1523
Day-Elder 4244
Dayton 5565a
Dead Easy 2394
Dean 316
Decktex 6128
Decroiler 1539
Defiance 1073
Delco 3508
De Luxe (*air or water sta.*) ...3774
De Luxe (*assist cords, nets*) ...4358
De Luxe (*broadcloth*) 3411
De Luxe (*hub caps*) 2820
De Luxe (*lamps*)3278
De Luxe (*tents*)..4798
De Luxe (*tires*)..3469
De Luxe (*tire covers*) 2418
De Luxe (*vanity cases*) 4764
Denman 2062
Deoxidine 143
Dependable (*enamels, dressing*)..2689
Dependable (*parts, access.*) 5697
Detco 1573
Diamo-Carbo 1566
Diamond (*ball retainers*) 4312
Diamond (*fibre parts*) 1270
Diamond (*hydrometers*) 2855
Diamond (*taps, dies*) 1033
Diamond Diachrome 122
Diamond E 1904
Diamond K 3720
Diamond T 1270
Diamond U 5505
Dim-Brite 6218
Dimeret 3539
Director 3855
Disteel 4005
Distillator 5589
Diverter Pole 1865
Dixie 1809
Dolfinite 1619
Dolly 2333
Domestic 3254
Dominion 1513
Dot 6318
Double Diamond.. 332
Double Eagle....2416
Double Service...3526
Double Slot 4719
Dover 2824
Dragon 1892
Drainoil 4719
Dreadnaught (*furnaces*) 6566
Dreadnaught (*tire chains, locks, tow ropes*) 1237
Dreadnaught (*trunks*) 4701
Drednaut 356
Dri-Kure 6649
Dropfo 2159
Dualarc 1856
Dualtone 1809
Duble Test 2672
Duby-Manley 142
Ducal 3868
Ducksbak 3537
Duco 1660
Dundee 4533
Duo-Adjuster ... 720
Duodraulic 1548
Du-O-Tan 6696
Duotrol 4681
Duo-Wear 1174
Duplex (*air cleaners*) 1620
Duplex (*buckets*).4798
Duplex (*engine governors*) 1851
Duplex (*glass grinding mch.*).3426
Duplex (*hat holders*) 2092
Duplex (*spark intensifiers*) 3150
Duplex (*tire carriers*) 6197
Durabestos 6325
Durabrite 1648
Duracos 6325
Duraflex 4028
Dural 5514
Duraplastic 6325
Durasote 4618
Durmalite 641
Durobal 6832
Duro-Bilt 4701
Duro-Gloss 2602
Durwood-Gopher 1667
Dusie-Durable ...1674
Dusie-Howe 1674
Dutch Boy 4238
Dutch Brand 6456
Dynamo (*belting*) 763
Dynamo (*timers*).2795
Dyneto 4561
EAM 3759
E.B. 3925
E.C. 2802
E.C.V. 2802
EE 1628
E W C.....1870
E-Z (*back rests*)..1838
E-Z (*creepers*)...6554
E-Z (*wire stripping tools*.....3003
E-Z (*wrenches*)..5103
E.Z. Grip 808
E.Z. In 1905
E-Z-On 2722
Eagle (*belts*)....5214
Eagle (*clamps*) 6783
Eagle (files, rasps) 4314
Eagle (*leather*)..5084
Eagle (*tents*)....6639
Easy 1233
Easy-Back 4787
Easy-On (*covers*).2418
Easyon (*chains*)..6787
Eaton-Lite 1819
Eco 5510
Economic 2621
Economy (*glass mch.*) 3426
Economy (*washers*) 2702
Economy-Ex-Ray 4007
Egyptian 6679
Ekla 1829
Elbon 1591
Elcaro 2092
Electric Doorman.4753
Electrolock 3926
Electrolon 11
Elephant (*bushings, bearing metal*) 4700
Elephant (*steel wool*) 5129
Elliott's 3015
Elvo 2027
Elysee 3938
Embassy 4692
Em-C-Lac 1882
Emco 1892
Empire (*clocks*)..4692
Empire (*hammers*)2454
Empire (*nuts, bolts, screws*)..5213
Empress 696
Equipto 304
Erie 4692
Esco (*back rests*).1838
Esco (*brushes*) .1895a
Eskimo 6319
Essex 2824
Ettco 1815
Evalast 506
Even Trim 5645
Everbright Pontop 1659
Everdry 693
Eveready (*flashlights, lamp bulbs*) 4223
Eveready (*switches*) 5556
Eveready Columbia 4223
Eveready Prestone4223
Ever-Easy 3996
Everflo 5135
Evergrip 2019
Everlasting 6566
Ever Ready (*tire patches*) 2773
Everready (*jacks, lubricators*) ...5165
Ever-Rite 3800
Ever Safe 5082
Everstay 4541
Ever Step 5199
Everstick 2044
Every-Day 5199
Excelsior 5664
Exide 1868
Expedite 4756
Exton 1342
Eyelid 2628
Ez-Chain-On 4791
Ezell 713
Ezy-Out 1185

F-J 2113
F.O.S. 5488
F-S (*locks*).....5593
F & S (*bearings*) ...1000a
F W D.....2119
Fabco 2000
Fabrikoid 1661
Fabroil 2343
Fageol 141
Fairfield 1659
Famous Fandango.2020
Fanco 4271
Faraday 1866
Fasthold 3925
Faultless 3855
Favorite 1033
Fay-O-Rite 726
Feather 1160
Federalite 2038
Felpak 2047
Fel-Pro 2047
Fender-Fix 3509
Fenix 4698
Fercrome 3102
Ferdico 2049
Fex 4540
Fiberlac 2059
Fidelity 2608
Fil-Trap 6154
Finger-Tip 3150
Fireball 4227
Fire-Gun 165
Fisco 2077
Fisher 5688
Fit-All 3418
Fits-All 3016
Fitzwell 4308
Flampruf Silvaplate 2144
Flash (*priming fluids*) 2616
Flash (*radiator caps*) 2053
Flatlite 154
Flexite 1603
Flexo (*belting, straps, belts*)...1575
Flexo (*oiling cans*) 1632
Flexo (*piston rings*) 6625
Flex-Tan 6734
Flintstone 3408
Floafome 2350
Flosol 143
Flushkleen 4009
Fluxine 3345
Foamite 165
Fobafimi 801
Foldaway 6733
Fontaine 194
Forford 3891a
Forge-Steel 3268
Fosco 5458a
Fostoria 708
4 in 1 6672
Four-Way 6218
Foxy-Nob 2628
Frankite 2126
Freeztector 3018
Fren-Lac 2142
Fron Toms 2628
Fronty 1109
Frothex 3320
Fry 1032
Fyber-Weld 1115
Fyr Fly 6145

G-B (*batteries, parts*) 2366
G-E 2343
G.E. Mazda 4237
G.L. 3495
G.M. 3925
G-P (*automobiles*) 2440a
G-P (*reamers*) ..2113
GP (*elec. parts*).2472
G T D 2456
G.W.W. 6748
Gabriel-Anderson-Ajax 2305
Gacor Stop-It ...2337
Garco 2338
Garcobestos 2338
Garford 5085
Gargoyle 6452
Garrett 4779
Garvin 2145
Gas-Co-Lator ... 86
Gas-Lube 5625
Gearheet 5185a
Gee-Bee 1097
Gee Whiz.....5783
Gem (*lubricators*) 1842
Gem (*wings*)....2404
Gemmer 3268
Genasco 536
Gesaco 5478
Giant (*belting*)..4725
Giant (*brake lining*) 3248
Giant (*pliers*)...5420
Giant (*wrenches*) 3270
Gibraltar 1334
Gilfillan 1827
Gladish 132
Glaze Braker.... 553
Glaze Breaker... 501
Glen Cove 3408
Glolite 3956
Glownite 3776
Glyco 3942
Glyc-O-Meter ...1842
Goldbond 74
Golden-Glow ...1866
Golden State Lo-Bed 2406
Gold Seal (*aprons, gloves*) 2415
Gold Seal (*chamois, sponges*) .4738
Gold Seal (*lathes*)5490
Gold Shield 74
Good Luck 4620
Goodnight 5471
Goodyear 5417
Gopher (*heaters, dash controls, valves*) 268
Gopher (*valves, tools*) 4348a
Gould Dreadnaught 2425
Graco 2445
Grafel 2047
Grafild 6795
Gra Knight.....2441
Grand Rapids ...2309
Graphex 4279a
Grapho 2746
Great Western...4314
Green Dragon ...3151
Greenerd 551
Green Jacket 5655
Gre-Mat-Co 2448
Grey-Rock 6325
Grey-Rock Eagle.6325
Grif-Ho 2461
Grip-It 4558
Gripper 5046
Griptite (*patches*)5413
Griptite (*trouble lamps*) 4712
Grizzly Grip ...6224
Groco 3809
Guardene 4806
Guide Ray 2475
Guide Tilt Ray ..2475
Gulf 1591
Gummon 2318
Gun Iron.....2843
Gurney 5786

H.A.D. 1629
HB (*garage rep. equip.*) 2766
H-B (*heaters*)..6133a
HB (*bolt & screw cases*) 2767
H & C.....3779
H & G 1813
H & S 2637
H-W 3872
Hahn 5498

Digitized by Google

TRADE NAMES—Continued

Hallowell 5690
Hamco (*hydrometers*) 2623
Hamco (*parts*)...2619
Hamcolac 2619
Hamilton 2621
Han-D (*hammers, tire pump connections* 1842
Han-D (*starters*) 1064a
Hand-D (*gages*) .5834
Hand-D (*tire pump connections*) 1842
Handichains 6787
Handigrip 4729
Handipocket 210
Handipouch 210
Handy (*battery fillers*) 4707
Handy (*chargers*) 3060
Handy (*washers, screws, nuts*)..2702
Handy-Dandy ...2855
Handy No. 20...5567
Handy Oilfiltor ..2630
Hanover 4773
Hansklean 1895a
Harco 2648
Hardwear 6696
Hardy 6129
Hargrave 1148
Harley 203
Hartford 5653
Hartung 4523
Hasler-Tel 1311
Hawkinson 3239
Headfast 2666
Heart 2441
Heat-In 3514
Heavy Duty 5079
Hedco 2694
Heliflex 5167
Hemenway 44
Hencol 1214
Hercules (*bar cutters*) 6212
Hercules (*cranes*) 526
Hercules (*drills*) .6697
Hercules (*lubricators*) 2760
Hercules (*spark plugs*) 6679
Hercules (*springs*) 4242
Herman 5763
Hermetic 5571
Heron 6657
Herzim 2722
Hess-Bright 5401
Hete-Pruf 5098
Hevy-Duty 720
Hex 1566
Hickory-Nut 5417
Hicycle 1123
Hidem 2625
Highlander 2743
High Speed 2306
Hilab 2746
Hi-Life 4007
Hi-Lo (*horses*)...4531
Hilo (*jacks*).....3553
Hilo De Luxe ... 166
Hipco 2761
Hi-Power 726
Hippo 2855
Hi-Pro 3987
Hirsute 3128
Hi-Speed 74
Hitchon 316
Hit'Em 360
Hi-Test 4215
Hocut 2808
Hodell 1077
Hoflion 2777
Hoke Jewel 2779
Hoke Ok.....2779
Holdfast 3324
Holly 5181
Hollywood 4220
Holt's 6619
Homasote 4618
Homcharger 3323
Hoof-Fabroil 2799
Hoof-Graphoil ..2799
Hoof-Guay 2799
Hookon 3855
Hoopes-Parker ..2800
Horsfield 1033
Hot-Spot (*lighters*) 4764
Hot Spot (*soldering irons*) 1510
Hottentot 1620
Hotz 2137
Houdaille 2807
Hubaco 5456
Hubrite 6458a
Hughes 3750
Hugtite 4725
Hunt 6491
Hunter 1866
Huntington 1566
Hunt's Boscobel..2841
Hupmobile 2844
Hutto 5753
Hyalac 3868
Hyaline 1183
Hycoe 5049
Hydro Cushions...5761
Hydrokit 5733
Hydron 1190
Hydro-Purock ...2762
Hy-Ef 2856
Hypowa 4743
Hypresco 2853
Hyrate 559
Hytens 4761
Hytest 653

I.C.U. 3523
I.O.C. 3049
I P Hyde 2850
I.X.L. (*chucks*)..6643
I. X. L. (*spring covers*) 727
IXL (*jigs*).....3412
Ideal (*beds*).....4798
Ideal (*car washers*) 2857
Ideal (*creepers*)..3274
Ideal (*hydrometers*) 5217
Ideal (*jacks*)....3417
Ideal (*lifts*).....4538
Ideal (*lighters*)..5626
Ideal (*shop equip.*) 5452
Ideal (*tire rep. mtrls.*) 3983
Ilco-Ryan-Lite ... 105
Illinois 6119
Ilok 6100
Imco 1576
Imperi 4218
Imperial (*belting*)4725
Imperial (*enamels*) 78
Imperial (*taximeters*) 6335
Improved Keystone 3267
Improved Vulcan.6730
Independent 6643
Indianapolis ...3986A
Indian Red 1591
Inlex 3035a
Inlite 3035a
Inloid 3035a
Inlox 3035a
Inner Lock 2722
Instanton 1602
Insulmat 4786
International 1866
Iron Man 5214
Irvington 287
Irving Waterway.3065
Iva 3349A
Ivanhoe 1866
Izett Sleeper 3069

J.C.M. 3254
J.H. 6174
J & L 3151
JMC 5485
J. Z. 6820
Jack Frost 2855
Jadson 1889
Jagabi 636
Jahns 2823
J. Barton Smith..4314
Jenny 2792
Jerome 4292
Jesco 3119
Jesco Automatch.3119
Jewelcrafts 3955
Jiffy (*bumpers, cleaners, lights*)3445
Jiffy (*caps, clamps, pins*) 134
Jiffy (*covers*) ...2418
Jiffy (*crank holders*) 2053
Jiffy (*tents*)..... 621
Jiffy (*valve tools*)2795
Jiffy-Jordon 349
Jiffy-Out 3125
Jiffy-Tite 3893
Jiffytools 3256
Jobeco 3128
John Bright 3041
John Crane 1314
Johnston Copspotter 3950
John Wood 5510
Jointite 4021
Jumbo (*awnings, covers, mats*) .5460
Jumbo (*casters*)5409A
Jumbo (*hydrometers*) ... .2855
Jumbo (*lamps*).. 128
Jumbo (*lubricators*) 1842
Jumbo (*rep. shop mch.*) 4775
Jumbo (*take offs, converters*) ...4602
Jumbo Thor-O-Test 4775
Jumbo Wheel-O-Meter 4775
Junior 3426
Just For You 6464
Just-Rite 671

K-E 3296
K P.....2631
KPN 1027
K.R.W. 6745
K-S 3278
K. & S. 3240
K-S Telegage ...3285
Kaktus Kid 1007
Kalber Kaster ...2621
Kamlee 3720
Kane 3836
Kant Klog 6608
Kantleak 1520
Kantlink 3777, 4240, 4746, 5093
Kant-Slap 6343
Kant-Slip 5691
Kant-Stick 5482
Kari-Keen 3065
Karkote 4283
Karropak 2047
Kearney & Foot .4314
Keen-Test 2623
Kelly Albany ...5764
Kelly Kats 3247
Kemick 143
Kennedy 3794
Kentucky 4271
Kenway 3260
Key 3059
Keystone (*bat.*)..4773
Keystone (*bus fittings*) 1866
Keystone (*lock nuts*) 4746
Keystone (*shafts*)5096
Keystone (*springs, tire chain fasteners*) 2053
Keystone (*windshield visors*)..1905
Kidskin 1513
Kilglare (*headlight dimmers*).6197
Kilglare (*glare dimmers*) 4682
King 1860
King Bee 131
King-Milwaukee .3911
Klassey-Mat 1842
Klay 5481
Klean-Spark 1604
Klearsite 5604
Kleen Kut 5514
Kleen-Oil 3205
Klensa 5704
Klinch-Linx 134
Knepper 1269
Knit Soft 1905
Knock-Out (*gear & wheel pullers*) 1669
Knock Out (*valve seats, tools*)...3467
Knockout (*gear pullers*) 1639
Koachbed 3222
Koch Kreeper ...2109
Kodaloid 1816
Kodatape 1816
Koolfast 584
Korkpak 2322
Koro 3293
Korrect 6220
Kozy Wings 3885
Kramer 6187
Krone 3106
Kut-Kote 1524
Kwality Kaster ..2621
Kwick-Test 5482
Kwickwerk 5482
Kwickwork 5704
Kwik-Way (*shop equip.*) 1058

L. & J. 3543a
L-N 3462
L O F 3489
L-X 3780
Lace Web 5202
Lacq 2389
Lac-R-Shine 2670
Laeng 3947
La Favorita 3466
LaFrance 165
LaFrance-Republic 3409a
La Hodny.....5685
Laminum 3418
Laps 3564
Lasco 3410
La Salle 1008
Lawco 3448
Leader 4271
Leakproof 6185
Leatherene 3821
Leatherode 6659
Leathertex 2746
Leath-R-Nu 4359
Leco 3492
Leeland 3469
Lee-O-Lite 3464
Lek-Tro-Hot ...1867a
Le Moon 4273a
Letel 3481
Lethermet 720
Liberty 3752a
Lift-A-Car 6560
Lightnin 3537
Lightning 6171
Light Service ...6730
Limaco 3503
Linco 3509
Lincoln 3718
Lindy 5783
Linendoll 4353
Line-O-Brake ...3516
Linestart 6664
Lingerwett 6746
Lion (*hose*) 1591
Lion (*links, signals, fender, guards*) 5556
Lion (*tents*) 6639
Lionite 2336
Lion Paw 768
Lithoform 143
Little 3426
Little B-R-A-T-S.2053
Little Gem 2623
Little Giant (*jacks*) 4757
Little Giant (*portable pneumatic mch.*) 1123
Little Giant (*rim tools*) 6630
Little Giant (*taps, dies*)....2456
Little Giant (*trucks*) 87
Lo 3489
Loadometer 655
Lockheed (*brakes*) 2851-6553
Lock-tite 2625
Lockwood 338
Logan I. T. M..3534
Long 5733
Long Distance ...1039
Longlife 2412
Lo-Swing 5502
Lotens 4761
Loxon 720
Lubrair 3298
Lumarith 1060
Lumetex 6206
Lux 3276
Lux Minute Meter 3566
Lyknu 2133
Lynite 120

M. B.....3842
M. & B.....3986a
M. D. Co. 3837
MF 3914
M & H 3824
M-R-C 5786
M-W Air King..3859
McClellan 4314
McKay 6330
McKay Shurout ..6330
McKee 1831
McKim 3709
Mac 3797
MacAlite 170
Mac-It 5789
Mack 3048
Macmyr 5092
Magic Mist 3151
Magic Seal 3983
Magnet 5605
Majestic (*lamps*).1599
Majestic (*wings*).2404
Malta 1027
Manhattan 4692
Manson 4533
Mapbrand 6345
Marathon 3820
Marchal Tri-Lux.4321
Mark 43
Marnot 4214
Marshall 4242
Marvel (*hydrometers*) 5482
Marvel (*spark plugs*) 5079
Marvel (*tire chains*) 4647
Marveleather ...6128
Marvel Mystery..1883
Markwell 3988
Marvo 2033
Masco 3814
Master (*castors*) 5409a
Master (*hammers*) 726
Master (*hydrometers*) 2623
Master (*Machines*) 5721a
Master (*tires*) ..2019
Master (*tire flaps*) 4736
Masterbilt 5139
Mastertan 5468
Maxi 5585
May's 720
Meco 3928a
Meeco 3782a
Meg 636
Megger 636
Melling 6558
Menominee 6376
Mermaid 188
Meritas 5699
Metro 3861
Metropolitan 2042
Meyer 1888
Mezzo 1185
Micabond 1119
Mico 3935
Microphone 5112
Micro Set 5453
Midwest 2773
Midget (*glass cleaners*) 3829
Midget (*lever extensions*) 6221
Miho 4523
Milady's Moto Mirror 6218
Mileco 3891a
Mil Flex 6142
Mil Flex Midget.6142
Miller 4741
Millerette 4779
Millers (*flux*)..1895a
Miller-Schofield .5461a
Milligan 31
Milwaukee (*drilling mch.*) 5117
Milwaukee (*pumps*) 2700
Miracle 5046
Mirifik 3446
Mobilgrease 6452
Mobiloil 6452
Mobilubricant ...6452
Mobo 5707
Modeck 3104a
Model Star 4749
Mo-Gil-Ner 4007
Mogul (*bearing metals*) 2039
Mogul (*hoists*) ..6377
Mogul (*packing*).3127
Mohawk 4725
Momaco 3937
Monac 3957
Monaclok 3957
Monarch (*covers*)6346
Monarch (*drills*) .3270
Monarch (*fender braces*) 3855
Monarch (*hoists*)4306
Monarch (*mirrors, lamps*) 5137
Monkey 2092
Monkloth 2092
Monmouth 1819
Monogram 3286
Moog 5414
Moonbeam 5534
Moore 3503
Moose 1591
Moran's 2454
Morco 3934
Morehouse 6597
Morgan 81
Morocco 6191
Moroloy 3975
Mor-Power 5812
Morris 6719
Mosco 2723
Motobestos 6325
Moto-Dor 128
Moto-Gard 720
Motop 3110
Motor-Ex-Ray ..4007
Motor-El-Ray ..4007
Motor-Vac-Ray .4007
Motorphone 588
Motor-X-Ray 3452
Motoscope 5787a
Moto-Vox 3992
Mountbestos 4556
Mt. Carmel 6783
Multiblasters 5781
Multi-Flex 4299

Nabralco 4222a
Nachman 4242
Nagel 3992
Namco 4211
National (*jacks, pedals*) 4757
National (*tool kits*) 6679
Native 4716
Neapco 4288
Nebulyte 221
Neff 1549
Nelson 3876
Nelson Bohnalite. 682

Digitized by Google

TRADE NAMES—Continued

Ne-Pac 1027
Neptune (*belting, cement*) 2441
Neptune (*water*) .2755
Netco 4290
Neul 1576
Neutralite 506
Neva-Lost 6626
Never-Burn 4347
Never-Freeze 3922
Never-Krack ...1006a
Never-Leak (*fittings*) 1623
Never-Leak (*gaskets*) 2079
Neverleak (*cement*) 3516
Neverleek 1045
Neverout 5176
Never Pinch 2019
Never-Slip (*pullers*) 3887
Never Slip (*washers*) 4264
Neway 35
New Day 6218
New Easy 4743
Newmanco 4296
New Premier ...2748
New-Rode 3116
Newtone 1800
Niagara (*belting*).3128
Niagara (*fire ext.*) 777
Niagara (*meters*). 780
Nic-A-Loy 6728
Nifty 2053
Niklm 3986a
Nik-O-Lac 4319
999 1508
Nixonoid 4324
Noark 1227
No-Clog 1623
Noco 2092
No-Draf 2809
Noglar (*glare dimmers*) 2796
No Glare (*glare dimmers*) 3118
No-Glare (*mirrors*) 3950
Nokorode 1653
Nomar 5139
Nonox (*chain links, tighteners*)6586
Nonscor 6304
Norka 1146
North Star 4674
Northwestern 5713
Norwesco 4347
Norwest 4350
No. 7 1660
No. 7 Duco 1660
No Slip 763
Novasote 4618
Nu-Angle 6471
Nu-Art 3345
Nu-Life 134
Nu Power 4619
Nustyle 4614
Nu Trix 5083
Nu-Way 6344a

O. K. (*clippers*).4743
O. K. (*hydrometers*) 5217
O. K. (*speedometer joints*)....5832
OMC 4556
Oakes Biflex 4503
Obcelloid 4508
O'Brien 3332
Octagon 3466
Ohio 4514
Oil Circulating ..2672
Oildraulic 3794
Oil-Meter 3915
Oil-O-Dometer ..6464
Oilrite 4214
Oil-Vent 6302
Okocord 4533
Okolite 4533
Oldforge 5002
Old Hickory 3258
Oldsmobile 4535
Olson 5828
Oman 4556
Omsteel 4540
100% 1861
On-X-Glas 2809
Opex 5541
Opto-Clear 6197
Oro 310
Ortho 4354
Otsteel 213
Out-O-Site 1132
Ovax 4527
Overflow 2690
Ovleye 5094
Oxolin 531

PBF 6634
P & H.....2649
P.M.B. 4605
Pacifelt 4607
Pacific 3794
Packard Lac-Kard 4610
Packard Pert-O-Lite 4610
Packer 643
Paco 4738
Pactite 2038
Paige 2430
Pak-Age-Car 4609
Pam 4791
Panama 3260
Panoramic 3950
Par 4681
Parabolic 4263
Paradox 1185
Paraflex 653
Paragon 1033
Paralite 1553
Paramount (*clocks*) 3776
Paramount (*covers*) 4615
Paramount (*pumps*) 346
Paramount (*taxicabs*) 3938
Paranite 3028
Parco 4616
Park-O 4622a
Parob 2311
Paruba 3925
Pathfinder 2416
Patrician 4701
Pebble Beach ...1334
Pedatrol 4681
Pedersen 4531
Pedrara 5639
Pedrick 6723
Peerless (*battery tools*) ... .4672
Peerless (*curtain fasteners*) 4271
Peerless (*farm lighting plants*)3407
Peerless (*reamers*) 1185
Peerless (*tool boxes, caps, fenders*) 1294
Penco 4654
Penflex 4656
Penmaid 4657
Penn 2656
Pennsylvania 4260
Peppy 16
Perfect (*packing*).2338
Perfect (*pliers, pumps, tire tools*) 4757
Perfect (*retainers*)1002
Perfect Balance..5645
Perfected ZZ....1566
Perfection (*bat. con.*) 2079
Perfection (*burners*) 3293
Perfection (*felt, lining, packing*) 1250
Perfection (*heaters*) 1819
Perfection (*mattresses*) 278
Perfection (*parcel carriers*) 6731
Perfection (*pedal pads*) 2158
Perfection (*pump con.*) 5753
Perfection (*valve tools*) 5212
Perfecto 3857
Permaflex 1045
Permalite 121
Permalites 4677
Permanere 1186
Permanite 2054
Permite 121
Permite-Diamond. 121
Perm-O-Brite ...3465
Peroline 143
Perry 2694
Peters 1181
Petrolite 1513
Pexto 4644
Pharaoh 1186
Pharo 629
Phenoid 1079
Phomene 4806
Piccadilly 1257
Pickl-Aide 6610
Pierce-Arrow ..5402a
Pilley—U. S. Cyclonic 4709
Pilot 2855
Pioneer (*drills, machines*) 3547
Pioneer (*elec. tools*) 3547
Pioneer (*heaters*).5479
Pioneer (*lamps, mirrors*) 6326
Pioneer (*lubricators*) 5753
Pioneer (*top parts, access., creepers*) 720
Pistol Grip 2107
Pitless 1025
Platelite 131
Plylift 4298
Plymouth 1138
Pneuphonic 6663
Pocodeck 4734
Pocotop 4734
Polarstil 286
Poncho 4628
Ponjola 3221
Pontex 1661
Pontiac 4505
Portland 720
Porto Bassinette..3787
Port-O-Cord 4610
Port Oil 6602
Positive 1561
Power King 2795
Prange 3472
Precision 5687
Premier (*cable*).. 190
Premier (*lighters*)5822
Premier Handy ..4765
Premier Pic-Up..4765
Premier Spic-Span.4765
Pressurite 3018
Prest-Air 573
Presto (*clamps*)..1284
Presto (*fasteners*) 720
Presto (*lighters, switches*) 3856
Presto-Flux 3779
Prest-O-Weld ...4565
Prime-Ur 3016
Prompto 6634
Protection (*cans*).1597
Protection (*torches, furnaces*) 1168
Protecto 3147
Protect-O-Lac ...1268
Protex 3320
Protex-A-Car ...4791
Protex-It 4622a
Proxene 3422
Proxlin 33
Pull Gear 4672
Pullift 36
Purfex 89
Purgo 3516
Puritan 1067
Purolator 3998
Pyralin 1663
Pyrma 1896
Pyroid 2338
Quaker 281
Quality (*cables, gears*) 5687
Quality (*piston rings*) 4719
Quality (*radiators*) 2032
Quality (*saw blades*) 4205
Quality First 2758
Quality Service...4248
Quick As Wink..2842
Quick Service ...6465
Quick-Set 1185

R. & E. 5048
RHL Rheinland . 580
R-M (*hoists*) ...5142
R-M (*paints*)....5136
R. & R. 5044
R-W 5118
Race 5030
Raco 5108
Radd 3471
Radimeter 3992
Radlox 6145
Rain or Shine ...2357
Raino 131
Ramco 5039
Ranger 1599
Ransom 6619
Rapidayton 1533
Rapid Change ...5049
Ratlchek 3957
Rayfield 613
Ray-O-Vac 2141
Ready-Easy 2855
Reama 6461
Reamrite 2456
Reco 5122
Recordograf 4538
Rectigon 6664
Reda 5753
Red Arrow 6556
Red Ball 3992
Red-Bar 5062
Red Bird 3151
Red Cat 5191
Red Cat DeLuxe.5191
Redcenter 1672
Red-E 5058
Red Head (*lubricators*) 4301
Red-Head (*valve grinding tools*) 1669
Red Head (*tanks, systems*) 1112
Red-I-Lite 1666
Red Jacket 2711
Redmont 5062
Red Nut 2711
Red Ridge 337
Red Seal 5448
Red Shield 5700
Red Snapper 1090
Red Top (*fire ext.*) 2350
Red Top (*tire chains*) 3150
Red Top (*valve grinding tools*).3998
Red-Wing 1667
Red X 5413
Reelite 229
Reflex 2809
Regal Extra 6128
Regaleather 6128
Rego 555
Reichert 3015
Relaxon 1269
Reliable (*batteries*) 5677
Reliable (*jacks*)..1876
Reliable (*overhead systems*) 110
Reliable (*tools*).1253a
Reliance (*anti-rattlers*) 6733
Reliance (*belting gaskets*) 1111
Reliance (*belting, Re-li-o*) 6461
Reno-Eze 5667
Renol 5667
Re-Nu 241
Repcal Metal Pumps ..3241, 5100
Republic 3469
Rescue 165
Revolvo 6632
Rex 243
Rexoid 6129
Rex-Tube 1133
Rhams-Horn 5112
Rhopac 1125
Rich 6717
Rie-Nie 1667
Riflex 6322
Rigid Master.... 553
Rimac (*pump con., bearing scrapers*) 5134
Rimac (*valve refacers*) 1107
Rimac Universal..5134
Rimco 5135
Rim-Fit 4628
Rim-Kote 2616
Rimliner 5046
Rite-Way 5133
Riteway 5775
Road Gripper....4686
Road King 74
Roadmaster 2019
Road View 3957
Robinson 4282
Rock-A-Bye 4666
Rockstrand 1125
Rodtite 1513
Roll-A-Car 6560
Rollfast 2656
Rollpex 6144
Roneolen 5174
Ronoro 4022
Roosevelt 3792
Rosco 5179
Ro-To 3554
Rough Rider 165
Royal (*cleaners, lubricants*) 2331
Royal (*monograms*) 3955
Royal (*tire chains*)5420
Royal Blue 6619
Royal Brand.....5120
Royalco 6346
Royaleather 6128
Royal Worcester (*brushes*) 6792
Royal Worcester (*cement*) 2441
Ruby-Vogue 5206a
Ruco 5210
Ruff-Stuff 6600
Rugby 1665
Ruggles Perfection 5485
Rummell 93
Runbo 4613a
Run-Rite 2621
Rusco 5214
Rusco Durak 5214
Rush-Mapson ...5212
Rus-Pruf 2033
Russell 280
Russialoid 4618
Rust-I-Cide 5216
Ruxton 3964

S 5593
S.B. Borolon..... 11
S & C 5599
S C & H 5789
S I 5807
S-L 5416
S & M 5534
S O S 1099
S-R-B 5695a
S & S (*funeral cars*) 5442
S & S (*winches*).5472
S.S.P. 3872
Sabco 5428
Saco 5599
Safe-T-Stat 3992
Safety (*glare dimmers*) 2053
Safety (*pedals*)..6218
Safety Hercules..2785
Saf-Start 322
Salpa 182a
Samco 5429
Samson (*brushes*).3781
Samson (*hose*)...5617
Samson (*trunks*).5552
Sandersaw 1154
Sando 6191
Sargent 3764
Save-A-Head 3771
Savegas 4538
Sav-Oil 6602
Sawco 5628
Saylorduct 5443
Schacht 3458
Schebler 6676
Schlueter 3505
Schubert 3717
Scioto 36
Scotch 3921
Scout (*circuit testers*) 3471
Scout (*pumps*) .. 656
Scroo-Gripp 337
Sea Grass 5468
Sea Lion 1111
Sea Velvet 5468
Seawool 5468
Security 1128
See-A-Lite 4791
See Clear 3922
Seigelite 3127
Sells 5201
Seneca 4725
Sentinel 1599
Sepco 320
Service 5085
Servis 5508
Servrite 2394
Shade-A-Lator ..4791
Sharfont 5526
Sharlite 5526
Sharmeter 5526
Sharpit 5526
Sheds 210
Sherman 1566
Shofo 5707
Shoulderbilt 3469
Shoupaligner 315
Shur-Foot 3040
Shur-Grip 6586
Shur Kut.....1895a
Shur-Lite 2604
Shurlock 6586
Shuro 812
Shur-Oil 5549
Shur-On 5534
Shur-Shot 5534
Sieco 5635
Sig-No-Oil 6130
Silver King.....3014
Silver Sheen 5125
Silver Top.....5559
Silvertown 2412
Silv-O-Lite 6320
Simco 5571
Simplex (*cleaners*) 1620
Simplex (*compressors*) 2394
Simplex (*cranes*).5193
Simplex (*glass grinding mch.*).3426
Simplex (*governors*) 1851
Simplex (*hoists*).5649
Simplex (*jacks*)..6122
Simplex (*lubricators, wrenches*). 58
Simplex Hi-Pressure 2394
Simplex Multi Purpose 2384
Simplicity 5650
Sioux 83
Sipco 5451
Sirolectric 4677
Sisson 4705
Sitco 5807
Sixide 6586
Skayef 5401
Slade 3797
Slide-Off 4614
Slidetite 5118
Slipknot 4733

Digitized by Google

TRADE NAMES—Continued

Slip-On (*clocks*).3776
Slip-On (*tire valve caps*) 1664
Smithkit 5604
Smith's A-Mal-Gam 5608
Smith's Lifetime..5608
Smokette 5604
Smooth-Kut 3904
Snake 2760
Snap 3957
Snead 5653
Snow Crest 6729
Snow King 5187
Snug-Fit (*covers*) 1905
Snugfit (*goggles*).6125
Snugger 5041
Sonoco 5626
Sovereign 1513
Spanola 4308
Spartan (*batteries*)4773
Spartan (*belting*).2441
Sparton 5641
Sparonet 5641
Speed Control ...1253
Speed Service ... 128
Speed-Spra 2683
Sphinx 1580
Spirex 1185
Spit-Fire 3492
Spoher 6612
Spoksteel 4005
Sportlite 6353
Spraymasq 3921
Spray Mist 3513
Spraytex 5488
Springeez 2617
Springfield 5529
Spring-On 338
Sq. Deal 2415
Squarod 663
Squee-Gee 5449
Staco 5448
Stag 167
Staghound 3469
Stalit 3293
Stanco 5710
Stanco Quality ..5679
Standard (*awnings*) 6659
Standard (*belting*)4725
Standard (*curtain fasteners*) 3857
Standard (*lenses*).5601
Standard (*pumps*) 2700
Standard (*tow bars, creepers, jacks*).4258
Stand-Lac 5704
Stanley (*leaf springs*) 2653
Stanley (*portable electric tools*) 5708, 6461
Stanley-Atha, 5709-6461
Star (*batteries*)..2366
Star (*lathes*) 5502
Star (*overhead systems*) 2840
Star (*tires*).....2740
Star (*washers*)...4243
Star-Rite 2079
Sta-Tite (*caps*).. 131
Sta-Tite (*piston rings*) 4719
Stay-On 1347
Sta-Warm 587
Steelclad 3954
Steelkote 3540
Steelwood 6597
Steerbax 6696
Step Cut Compression 3728
Stephen Grebel ..4321
Sterbon 5744
Sterling 1592
Sterlith 5744
Stetson 3986
Sticktite 1589
Stick-Um-Tight .. 652
Stik-Tite 644
Stopmeter 4034
Stormizing 5775
Storm King 2342
Strickler 44
Stripple 143
Stromberg 611
Strombos 5112
Studebaker 5402a
Sturdite 1041
Super 3857
Super Grip 5420
Super Heater....3926
Superior (*caps*)..6145
Superior (*files*)...4314
Superior (*foot rests*) 3855
Superior (*hoists*).5193
Superior (*lubricators*) 3209
Superior (*piston rings, brake shoes*) 6689
Superior (*rivets*).5533
Superior (*sanding mch.*) 5800
Superior (*tire chains*) 4647
Superior (*tonneau shields*) 2404
Superior (*trunks*) 2319
Superior (*tubing*).4653
Superior (*wrenches*) ...6730
Superloid 3231
Super Niagara ...3267
Superoyl 3728
Super Service ...2378
Super-Six 1006
Super-Spiral 1006
Superstar 5751
Super-Superior ...6657
Superweld 6621
Superrench 6730
Sure-Catch 5694
Sure-Fit 2773
Sure Grip..... 330
Suregrip 3773
Surtin Hydro-'Lectrometa 5822
Sutton 3128
Swan 6145
Swartz 5779A
Swedox 1069
Sweetland 2778

T. & H. 5482
T-N 6139
T-P 6141
T. R. & S.....6211
Tab 6763
Tacoma 4692
Taconite 6103
Tailor Made 2139
Tanklock 334a
Tannate 5113
Tanpac 49
Tapeless 6561
Tarvo 3841
Tasco (*brushes*)..1092
Tasco (*elec. parts*) 339
Tasco (*gages*)... 76
Taxite 5541
Taylor 6102
Taylor-Made (*bat. parts, tools*) .6107
Taylor-Made (*trunks*) 6114
Taylor-Newbold ..6102
Taylor 2 in 1 ...2402
Telechron 5575
Tell-Tale 2855
Teltale 2475
Tenax 49
Tenglo 6123
Testbestos 130
Testoid 6129
Tetco Tim 1869
Texford 3891a
Tex-Oil 2799
Texolite 2799
Textasote 4618
Textilco 6128
Textolite 2343
Theftproof 3950
Ther-Mo-Cool ...1528
Thermolier 2344
Thomason 5536
Thor 726
Thornton 4292
Thumlock 2479
3B 702
3 in 1 5413
Three-M 3921
Three-M-Ite 3921
3-Way 4005
Tiffany 1257
Tilden 5049
Tilden Hydraulistat 6153
Timesaver 12
Tiona 6161
Tip-Top 6143
Tire-Lac 4347
Tirelok 3816
Tirro 561
Titan (*batteries*).2348
Titan (*hose*).....1591
Titanic 6222
Tite-Lite 3520
Toe-In 3805
Tom's 5421
Torit 5419
Tornado (*cleaners, sprayers*) 719
Tornado (*pumps*) 3151
Torpedo 5079
Torrid 1597
Tortoise 6218
Tourac 3316
Touristrunk 10
Trahern 5175
Trail-it-Hitch ...6181
Transport 2009
Trax-Yun 1174
Treasure Island (*counters, racks*) 6228
Treasure Island (*sponges*) 1334
Tree 682A
Trenton 2080
Triangle 2104
Tridex 2473
Tri-Duty 1344
Tri-Flex 4299
Tri-M-Ite 3921
Trimo 6191
Triple Diamond ..6679
Triplex (*glass beveling mch.*)....5624
Triplex (*tire carriers*) 6197
Triplexd 3853
Triplewear 1672
Trip Robe 4262
Trojan (*air or water sta.*) 3245
Trojan (*luggage carriers, tool stands*) 352
Trojan (*valve grinding comp.*) 2626
Tronick 5706
Tru-Bor 4804
Tru-Drum 3779
True Fit 3918
Tru-Kaster 2621
Tru-Lay 142
Tru-Stop 142
Trusty 4757
Tuarc 4005
Tukaway 3540
Tulite 6216
Tungsto 6103
Turbotube 3929
Tu-Ton 2621
Tuxedo 3514
2098 3925
2397 3925
Twilite (*lamps*)..1599
Twilite (*lenses*)..3956
Twin Beam 3956
Twin Disc 3505
Twingroove 2690
Twinlock 4682
Twister 1620
2 in 1 6218
2-R-3 3052
Two-Toms 2628
Tycos 6109
Typhoon 5112
Typhoon Kar Kleener 2394

U 6307
U. S. Royal LB..6344
Uarco 6316
U-Can-Back ...3511a
U-Drive 6335
Ultimate 1603
Ultra 5802
Unic-Oil 6302
Uniflex 1654
Uni-Lub 3554
Union 3114
Unisparker 296
United 28
United-Tandem ..6351
Unitron 100
Unitype 121
Universal (*battery clamps*) 2861
Universal (*cases, monograms*) ...6464
Universal (*cleaners*) 3950
Universal (*clips*).4012
Universal (*hydrometers*) 5217
Universal (*lining*)2325
Universal (*pipe cutters*) 4649
Universal (*saw blades*) 3905
Universal (*shades*)5116
Universal (*terminals*) 2735
Universal (*tube tanks*) 3930
Universal (*turntables*) 1025
Universal (*vise jaws*) 6321
Universal (*washers*) 4036
Universal Twin .4682
Usaco 6324
Ushco 6329
Utili-Strate 6375
Utility (*back rests, tents*) 3862
Utility (*casters*) 5409a
Utility (*floor mch.*) 3254
Utility (*glass grinding mch.*).3426
Utility (*lining*)..2325
Utility (*lubricators, heaters*)..2749
Utility (*tools*)...2388

V-B 6503
V & B 6470
VV 6500
Vac 6362
Vac-El-Ray 4007
Vac-U-Draft 1651
Vacuna 3254
Valbestine 2338
Valley City 2309
Valley Forge 2073
Valspar 6453
Valvo 6461
Van Dorn 2330
Van Grille.....4557
Van-I-Tee 720
Van Sicklen 5761
Varco 9
Veebert 6825
Vee Flex 2746
Vee Sol 2746
Vehisote 4618
Vel-Coe 5049
Velourette, Jr. ..5200
Vellumoid 6475
Velvetouch 6628
Velvetruck 6628
Velvet-Spra 2683
Velwood 584
Vent-O-Gas 1247
Venturafin 135
Vermilyea 2640
Versatile 3426
Verson 3439
Vesta 225
Victofelt 6480
Victopac 6480
Victor (*batteries*).4773
Victor (*tool boxes, signals*) 1150
Victor (*vulcanizers*) 4202
Victoria 3411
Victorite 6480
Victory (*burners*).3293
Victory (*gages, starter extensions*) 5567
Vigilant 1599
Viking (*automobiles*) 4535
Viking (*tires, tubes*) 1240
Vim (*batteries*)..5062
Vim (*leather, belting*) 2808
Vim (*screw drivers*) 6491
Vitalic 1274
Vitalic Jorgensen.1274
Vitralite 4756
Vitraloid 4756
Vitreaglass 6496
Vitrohn 6573
Vixen 686
Vogue 4701
Volco 2789
Vulcan (*chisels*). 726
Vulcan (*fire ext.*) 3320
Vulcan (*springs, creepers*) 3116
Vulcan (*bench vises*) 3010
Vulcan (*pipe vises, clamps, tools*)..6730
Vulcan Superior..6730
Vulco 2324
Vul-Cot 4266

W-B 1127
W. & B.....6730
W & K 6685
W-S-M 6629
W W 6662
Walcott Winter Coats 6616
Walden-Worcester 5753
Wall 2024
Warner 5761
Warner-Penetreen 6580
Washine 3516
Watch-Me 543
Watertite 4725
Watertyte 3422
Wausite 6600
Waxfree Havoline 3030
Wayne 4670
Wayne-Hercules..6604
Wear-Bestos 265
Wear-Well 1174
Weather King ...3857
Weatherpruf 4725
Weber 5441
Websteel 6685
Wedford 6615
Wedford Air-Tites 6615
Wedford-Kex ...6615
Wedford Squeege.6615
Wedford Water-Tite 6615
Weed 142
Weed Spring-Check 142
Wee Zee 6711
Weldite 1130
Wentwin 6638
Wesco 6647
Westan 6657
Westclox 6648
Westcott 3270
Westfelt 6651
Westinghouse ...1179
Weston 5193
Wetordry 3921
Wetprufe 2746
Whale 2107
Whalls 3862
Whippet (*automobiles*) 6742
Whippet (*belting*) 3128
Whitaco 6679
Whiz 2784
Wiborite 303
Williams 6730
Willys-Knight ...6742
Winans-Pioneer .. 720
Windsor 3964
Wing Feather-weight 6754
Wing-Lock 2722
Winn 3702a
Winslow-Downflo 3872
Winterfront 4712
Wipewell 3957
Wire On ..1048, 2625
Wirepak 2047
Wisoid 1263
Witherbee 3573
Wixon 3016
Wiz 182
Wizard 6557
Wolf's Head Oil.6771
Wolverine 3987
Wonder 4647
Wonderpaste 6746
Wondertan 3725
Wonder Worker .2616
Woodco 6780
Wood-Detroit ...6779
Woodex 4279A
Woods 4640
Wovenstone 6304
Wright Reliable..6798

XF 4314
X-L (*reamers*)...5453
XL (*brake pedal depressors*) ...1929
X-L-N-C 1245
Xcel (*welding machines*) 5810
Xcel (*wrenches*)..4632
X-Cell-All 4225
Xlo Rest 2404

Y-M 6814
Yale 5166
Yankee (*ammeters, gages*) 3561
Yankee (*tools*) ..4338
Yellow Cab 2351
Yellow Coach ...2351
Yellow-Knight ..2351

Zeroclear 1137
Zerometer 1137
Zero-Tester 1842
Zip-A-Rak 4681
Zipitite 338

Digitized by Google

ASSOCIATIONS—Automotive

Including National and Sectional Trade Associations and Certain National Associations of the Manufacturers in Which the Trade Has an Interest

NATIONAL ASSOCIATIONS

AUTOMOTIVE JOBBERS ASSOCIATION

Headquarters—304 Arcade Bldg., 616 S. Michigan Ave., Chicago, Ill.

Executive Secretary—Walter H. Drew.

INDUSTRIAL ALCOHOL INSTITUTE, INC.

An Association of Industrial Alcohol Producers

Headquarters—420 Lexington Ave., New York, N. Y.

President—R. H. Grimm.
Executive Secretary — Dr. Lewis H. Marks.
Assistant Secretary—LeRoy Ferris.

MOTOR TRUCK ASSOCIATION OF AMERICA, INC. (M. T. A.)

Headquarters—38 Park Row, New York, N. Y.

Object: This Association is a rallying ground for owners and all others interested in any form of self-propelled or mechanically propelled commercial vehicles, aiming to promote conditions favorable to their efficient and economical operation.

Officers

President—I. A. Hungerford.
First Vice-President—Hermann Irion.
Second Vice-President—Roderick Stephens.
Third Vice-President—Joseph Husson.
Secretary—C. M. Billings.
Treasurer—Nat. Mallouf.
General Manager—Theodore D. Pratt.
Directors—D. C. Fenner, E. E. La Schum, L. E. Campbell, Emanuel Lascaris, Herman J. Harms, J. B. Dolan, Henry V. Middleworth, Henry K. Jaburg, C. Brettel, Wm. Murray, Wm. T. Bostwick, J. D. Bradley, E. A. Buchmann, L. E. Buswell, H. E. DeLisser, D. A. Glover, John H. Jacobs, John F. Kreisa, W. H. Moore, P. V. V. Tobin, E. P. McDowell, John B. Rosenquest, William J. Sommers.

MOTOR VEHICLE CONFERENCE COMMITTEE

Secretary—366 Madison Ave. at 46th St., New York, N. Y.

Object: To develop and promulgate, through the medium of its state subcommittees, and through educational work carried on by means of pamphlets and correspondence, sound and equitable principles which should underlie state motor vehicle legislation.

The national organizations represented on the committee are as follows:
American Automobile Association.
Motor & Equipment Association.
National Automobile Chamber of Commerce.
National Automobile Dealers Association.
Rubber Manufacturers Association.

Officers

Chairman of the Committee—D. C. Fenner.
Secretary—R. S. Armstrong.

MOTOR AND EQUIPMENT ASSOCIATION (M. & E. A.)

Headquarters—Chicago, Daily News Bldg., 400 W. Madison St.; New York, 250 W. 57th St.

Officers

President—E. T. Satchell, Motor Accessories Co.

Vice-President, Div. A—C. H. L. Flintermann, Wilcox-Rich Corp.

Vice-President, Div. B—C. C. Secrist, Victor Gasket & Mfg. Co.

Vice-President, Div. C—C. F. Wright, Ballou & Wright.

Secretary—H. J. Lange, Marquette Mfg. Co.

Treasurer—C. H. Burr, SKF Industries, Inc.

Headquarters Staff—M. L. Heminway, Managing Director; B. W. Ruark, Sales Development Manager; J. A. Laansma, Director of Publicity; A. H. Fagan, Manager, Credit Dept.

Div. A—Manufacturers selling for original equipment; producers of raw materials and manufacturers of machinery and tools sold to manufacturers.

Div. B—Manufacturers who distribute through wholesale channels only; or manufacturers who distribute through wholesale channels and sell also for original equipment.

Div. C—Wholesale distributors.

Directors—C. P. Brewster, K-D Mfg. Co., Lancaster, Pa.; David Beecroft, Bendix Corp., South Bend, Ind.; F. G. Wacker, Automotive Maintenance Machinery Co., Chicago, Ill.; Lothair Teetor, Perfect Circle Co., Hagerstown, Ind.; A. V. Hall, Sherwood Hall Co., Grand Rapids, Mich.; F. H. Floyd, Ward-Dossett-Floyd Co., Waco, Tex.; W. R. Crow, Crow-Burlingame Co., Little Rock, Ark.

Sales Development Committee:
W. S. Isherwood, Chairman (AC Spark Plug Co., Flint, Mich.)

Committee on Distribution:
Geo. L. Brunner, Chairman for Manufacturers (Brunner Mfg. Co., Utica, N. Y.)
Geo. H. Niekamp, Chairman for Jobbers (Beck & Corbitt, St. Louis, Mo.)

Committee on Retail Service Facilities
Victor C. Allen, Chairman (Automotive Maintenance Machinery Co., Chicago, Ill.)

Safety and Traffic Committee:
A. V. Hall, Chairman (Sherwood-Hall, Ltd., Grand Rapids, Mich.)

Advisory Committee:
N. H. Boynton, Chairman (National Lamp Works, Cleveland, Ohio).

Finance Committee:
J. M. McComb, Chairman (Crucible Steel Co., New York, N. Y.)

Credit Committee:
M. Moynihan, Chairman (Gemmer Mfg. Co., Detroit, Mich.)

New York Show Annual Banquet Committee:
M. B. Ericson, Chairman (Houdaille-Hershey Corp., Chicago, Ill.)

NATIONAL ASSOCIATION OF AUTOMOBILE SHOW AND ASSOCIATION MANAGERS

Headquarters—Chestnut & 56th Sts., Philadelphia, Pa.

Membership made up of automobile show managers and secretaries of city automobile dealer associations.

Officers

President—Robert E. Lee, St. Louis, Mo.
Vice-President—Herbert Buckman.
Secretary-Treasurer—Leon F. Banigan, Motor World Wholesale.

NATIONAL ASSOCIATION OF TAXICAB OWNERS

Headquarters—500 N. Dearborn St., Chicago, Ill.

Object: To afford our members a medium of cooperation. To collect and disseminate information that promotes the economical conduct of the taxicab business. To establish and maintain cordial relations with the public. To strive for safety on the highways.

Officers

President—W. W. Cloud.
Vice-President—Lewis A. Robertson.
Secretary—J. G. Williams.
Treasurer—Russell Reel.

NATIONAL AUTOMOBILE CHAMBER OF COMMERCE (N. A. C. C.)

Headquarters — Marlin-Rockwell Bldg., Madison Ave. & 46th St., New York, N. Y.

Officers

President—Alvan Macauley (Packard).
Vice - President — Alfred H. Swayne (G.M.C.)
Vice-President, Passenger Car Div.—A. R. Erskine (Studebaker).
Vice-President, Motor Truck Div.—A. J. Brosseau (Mack).
Secretary—C. W. Nash (Nash Motors Co.).
Treasurer—H. H. Rice (General Motors).
Directors—A. J. Brosseau (Mack); Roy D. Chapin (Hudson); Walter P. Chrysler (Chrysler); A. R. Erskine (Studebaker); Robert C. Graham (Graham-Paige); Charles D. Hastings (Hupp); F. J. Haynes (Durant); Alvan Macauley (Packard); C. W. Nash (Nash); William E. Metzger (Federal); H. H. Rice (Chevrolet); Alfred H. Swayne (General Motors); E. L. Cord (Auburn); Robert W. Woodruff (White); L. A. Miller (Willys-Overland).
General Manager—Alfred Reeves.

NATIONAL AUTOMOBILE DEALERS ASSOCIATION (N. A. D. A.)

Headquarters— Room 1210 Mather Tower, 75 E. Wacker Drive, Chicago, Ill.

Officers

President—J. R. Histed, Chicago, Ill.
First Vice-President—Harter B. Hull, Baltimore, Md.
Second Vice-President—Geo. D. Wray, Shreveport, La.

Digitized by Google

ASSOCIATIONS—Automotive—Continued

Treasurer—F. W. A. Vesper, St. Louis, Mo.

Secretary-General Manager—C. A. Vane, Chicago, Ill.

Directors—Tom Botterill, Denver, Colo.; W. V. Harrington, Minneapolis, Minn.; R. P. Taber, Hartford, Conn.; G. G. G. Peckham, Cleveland, Ohio; J. E. Smith, Atlanta, Ga.; J. T. Stewart, Omaha, Neb.; F. A. Winerich, San Antonio, Texas; J. W. Tarbill, Cincinnati, O.; Frank J. Edwards, Milwaukee, Wis.; R. V. Law, Indianapolis, Ind.; P. H. Greer, Los Angeles, Calif.; A. D. Plughoff, San Francisco, Calif.; C. E. Fisher, Newark, N. J.; Geo. Hoeveler, Pittsburgh, Pa.; Charles E. Gambill, Chicago, Ill.; Floris Nagelvoort, Seattle, Wash.; E. C. Bull, Buffalo, N. Y.; Edward M. Wallace, Washington, D. C.; Julian A. Peverill, Des Moines, Iowa; Eugene B. Smith, Greenville, S. C.

NATIONAL AUTOMOTIVE PARTS ASSOCIATION

Headquarters—Suite 513, 120 Madison Ave., Detroit, Mich.

President—W. W. Martin.

Vice-President—A. F. Baxter.

Vice-President and General Manager—Henry Lansdale.

Secretary and Treasurer—J. E. Aff.

Directors—J. E. Aff, A. F. Baxter, F. E. Brittain, C. C. Colyear, Henry Eagle, Henry Lansdale, W. W. Martin, H. G. Root, D. N. Test.

NATIONAL STANDARD PARTS ASSOCIATION

Headquarters—1210 Eaton Tower, Detroit, Mich.

Object: Promotion and stabilizing of the replacement parts industry.

Officers

President—C. M. Burgess, Burgess-Dall Corp.

Executive Vice-President—E. P. Chalfant.

Vice-President—Verne Olson, Automotive Service Co.

Secretary—Orville B. Gault.

Merchandising Service Director—T. O. Duggan.

Director of Publicity—H. J. Moore.

Manufacturers' Division Directors: H. Reisser, Link-Belt Co., Indianapolis, Ind.; W. G. Hancock, McCord Radiator & Mfg. Co., Detroit, Mich.; S. F. Dupree, Jr., Almetal Universal Joint Co., Cleveland, Ohio; H. J. Lange, Marquette Mfg. Co., St. Paul, Minn.; R. B. Davis, Raybestos-Manhattan, Inc., Bridgeport, Conn.; T. L. Ford, American Hammered Piston Ring Co., Baltimore, Md.

These six directors and the following make up the manufacturers' divisional committee: John Dages, **Chairman**, Republic Gear Co., Detroit, Mich.; Geo. L. Briggs, Wilkening Mfg. Co., Philadelphia, Pa., and F. J. Glennon, Aluminum Industries, Inc., Cincinnati, Ohio.

Jobbers' Division Directors: J. P. Muller, Fort Worth Wheel and Rim Co., Fort Worth, Tex.; O. M. Anderson, Northern Automotive Supply Co., Bay City, Mich.; L. N. Diedrich, L. N. Diedrich Automotive Parts, Ventura, Calif.; I. Gordon, Gordon Motor Parts, Inc., Rochester, N. Y.; T. C. Olson, Thomas C. Olson Co., Madison, Wis.; J. C. Rogers, Automobile Piston Co., Atlanta, Ga.

These six directors and the following make up the jobbers' divisional committee: H. N. Nigg, **Chairman**, Piston Service Co., Inc., Detroit, Mich.; L. H. Phelps, Phelps-Roberts Corp., Washington, D. C., and W. T. Mills Auto Parts Co., St. Louis, Mo.

NATIONAL TIRE DEALERS ASSOCIATION (N.T.D.A.)

Headquarters—220 Wiener Arcade, 36 S. Howard St., Akron, Ohio

Officers

President—S. B. Harper.

First Vice-President—Martin J. Barry.

Second Vice-President—Fred Schukraft.

Secretary—T. V. Rudy.

Treasurer—Russell Harp.

Directors—L. A. Brown, C. C. Wight, J. M. Linnehan, R. F. O'Brien, J. H. Walsh, H. V. Eva, A. L. Glick, A. Goldstein, Keely Grice, Milton Rosen.

Executive Staff—C. A. Meyer, Managing Director.

NATIONAL WHEEL & RIM ASSOCIATION

Headquarters—63 E. Lake St., Chicago, Ill.

President—W. D. Smith.
First Vice-President—John F. Creamer.
Second Vice-President—H. Milt Young.
Executive Secretary—George Fritz.
Treasurer—A. I. Carney.

AUTOMOTIVE ENGINE REBUILDERS ASSOCIATION

Headquarters—1 Broadway, New York City, N. Y.

Secretary—Robert C. McWane.

SOCIETY OF AUTOMOTIVE ENGINEERS, INC. (S.A.E.)

Headquarters—Engineering Societies Bldg., 29 W. 39th St., New York, N. Y.

Officers and Members of the Council

President—Edward P. Warner.

Vice-President—Dr. G. W. Lewis (representing Aircraft Engineering).

Vice-President—Bruce G. Leighton (representing Aircraft-Engine Engineering).

Vice-President—Otis D. Treiber (representing Diesel Engine Engineering).

Vice-President—Arthur J. Scaife (representing Motor Truck and Motor Coach Engineering).

Vice-President—George L. McCain (representing Passenger Car Engineering).

Vice-President—Willam N. Davis (representing Passenger-Car-Body Engineering).

Vice-President—John Younger (representing Production Engineering).

Vice-President—Frederick C. Horner (representing Transportation and Maintenance Engineering).

Councilors—Term of 1930: W. T. Fishleigh, O. A. Parker, James A. Moyer. Term of 1930-31: Ralph R. Teetor, Frederick K. Glynn, A. W. S. Herrington.

Treasurer—C. B. Whittelsey, Jr.

Past-President—W. G. Wall, 1928.

Past-President—W. R. Strickland, 1929.

Secretary and Gen. Mgr.—John A. C. Warner.

Assistant Gen. Mgr.—C. B. Veal.

Sections Dept. and Standards Dept.—A. J. Underwood.

Manager Standards Dept.—R. S. Burnett.

Manager Research Dept. and Meetings Manager—C. B. Veal.

STATE AND SECTIONAL ASSOCIATIONS

Alabama—Alabama Automotive Trades Ass'n. Sec., Grace Riviere Scott, Box 798, Montgomery, Ala.

Arizona—Arizona Automobile Dealers Ass'n. Sec., C. P. Stephens, 817 N. Central Ave., Phoenix, Ariz.

Colorado—Arkansas Valley Garagemen's Ass'n. Sec., Chas. Owen, Lamar, Colo.

Illinois—Illinois Automotive Trade Ass'n. Mgr., C. W. Coons, 212 Lehmann Bldg., Peoria, Ill.

Iowa—Iowa Automotive Merchants Ass'n. Sec., Walter Ferrell, 309 Masonic Temple Bldg., Des Moines, Iowa.

Kentucky—Kentucky Automotive Trade Ass'n. Sec., Garland Lea, 419 Finzer St., Louisville, Ky.

Louisiana—Automotive Trades Ass'n of Louisiana. Sec., Clem G. Hearsey, 721 St. Charles St., New Orleans, La.

Maryland—Automotive Trade Ass'n of Maryland. Gen. Mgr., John E. Raine, 1200 St. Paul St., Baltimore, Md.

Massachusetts—Massachusetts Auto Dealers & Garage Ass'n. Mgr., Day Baker, 126 Massachusetts Ave., Boston, Mass.

Michigan—Michigan Automotive Trade Ass'n. Mgr., W. D. Edenburn, 5-218 General Motors Bldg., Detroit, Mich.

Minnesota—Minnesota Motor Trades Ass'n. Sec., Arnon N. Benson, 317 Plymouth Bldg., Minneapolis, Minn.

Montana—Montana Auto Distributors Ass'n. Mgr., A. J. Breitenstein, Helena, Mont.

New Jersey—New Jersey Automotive Trade Ass'n. Sec., Raymond Beck, 292 Main St., Hackensack, N. J.

New York—Empire State Automobile Merchants Ass'n. Gen. Mgr., L. G. Stapley, 184 State St., Albany, N. Y.

North Carolina—North Carolina Automotive Trades Ass'n. Sec., Coleman W. Roberts, Greensboro, N. C.

Oregon—Oregon Automotive Trade Ass'n. Sec., Jas. H. Cassell, 9 Myler Bldg., Portland, Ore.

Pennsylvania—Pennsylvania Automotive Ass'n. Mgr., Claude S. Klugh, 208 Walnut St., Harrisburg, Pa.

Rhode Island—Rhode Island Automobile Dealers Ass'n. Sec., Ralph P. Lord, 1609 New Industrial Trust Bldg., Providence, R. I.

South Dakota—Automobile Trades Ass'n of S. D. Sec., H. M. Whisman, Huron, S. D.

Texas—Texas Automotive Dealers Ass'n. P. O. Box 926, San Antonio, Tex. Sec., M. D. Doody.

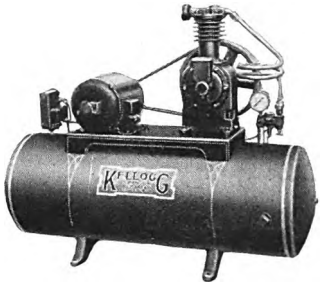
Digitized by Google

KELLOGG COMPRESSORS

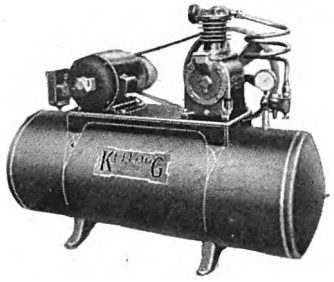
A QUALITY LINE
of
AIR COMPRESSORS
TIRE INSPECTORS
PAINT SPRAYING
EQUIPMENT
HIGH PRESSURE
LUBRICATORS
ENGINE CLEANERS

▼ ▲ ▼

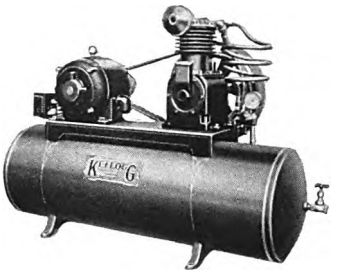
KELLOGG MFG. CO.
65 Humboldt St.
Rochester, N. Y.



KELLOGG EM-361
1½ horsepower motor
7.3 cubic ft. of air
$228.00 Net

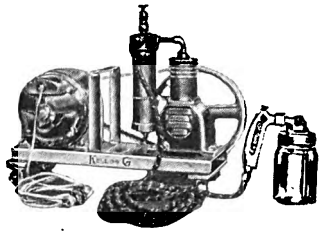


KELLOGG EM-3722
2 stage
2 horsepower motor
9.5 cubic ft. of air
$320.00 Net

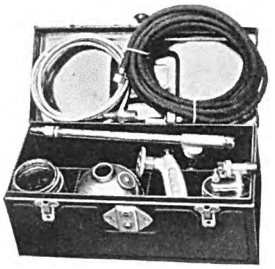


KELLOGG EM-3322-E
2-stage 3 horsepower motor
16 cubic ft. of air
$405.00 Net

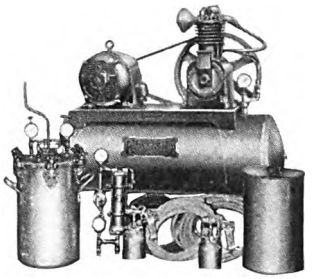
KELLOGG EM-251-H
1½ horsepower motor
2½ cubic ft. of air
$135.00 Net



KELLOGG Utility Paint Spraying Equipment
Portable . . . weighs only 46 pounds. ¼ horsepower motor . . . Highly efficient.
$57.00 Net



KELLOGG 4-in-1 Garage Kit
Paint spraying gun unit, spring spray gun unit, handle unit, engine cleaner unit, duster or blow gun unit, and air hose . . . in metal box.
$14.75 Net

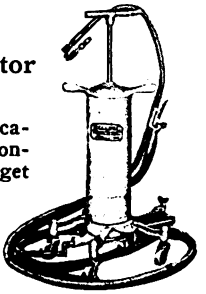


KELLOGG Paint Spraying Outfit No. 16
A deluxe outfit for the shop refinishing ten or more cars per week.
$466.00 Net

KELLOGG METAPUMP
The first accurate pump integral with an accurate meter. Registers grease delivery in ¼, ½, ¾ and full pints. Complies with legislation of all states. Dustproof, easy to fill, easy to carry.
$16.50 Net

KELLOGG Spring Oiling Gun KS
$8.50 Net

KELLOGG No. 20-A Lubricator (Air-Operated)
4500 to 6000 pounds capacity . . . automatic control . . . no valves to get out of order.
$115.00 Net



Digitized by Google

BACKING UP OUR LINE

BEHIND the manufacture of AMO Starting, Lighting, Ignition and Rim Replacement Parts is *the* organization which may be depended upon for sound business ethics, as well as sufficient resources to constructively support merchandising plans for each unit in the line.

Years of manufacturing experience combined with proper financial strength assures superior workmanship and exacting factory supervision in every part bearing the AMO trade-mark.

The Distributor Contract, with the protection it affords, means just what it says and the proof of its value lies in the hundreds of satisfied customers throughout the United States and the steady increase in business each year.

The AMO trade-mark on Starting, Lighting, Ignition and Rim Replacement Parts is your safeguard and profit assurance.

Send for our 88 page catalog which gives you complete information and illustrations on the following and many other parts:

Contact Points
Distributor Heads
Distributor Rotors
Condensers
Resistance Units
Generator Cutouts
Generator Brush Holders
Spark Testers
Starting Switches
Scroo-Gripp Automatic Release Screw Driver
Generator and Starter Brushes
Breaker Springs
Fuses
Ignition Cable Sets
Horn Buttons
Starting Motor Housings
Thickness Gauges
Fibre Washers
Metal Spacer Washers
Ignition Wrenches
Magneto Contacts
Rim Bolts, Nuts, Clamps and Wedges

AUTOMOTIVE PRODUCTS

AUTOMOTIVE MANUFACTURERS INC.
569 BROADWAY...NEW YORK CITY

Digitized by Google

DISTRIBUTORS

Alabama — Birmingham: Alabama Truck Equipment Co., 1730 Vanderbilt Road.
California—Los Angeles: Electric Equipment Co., 1240 South Hope St.; San Francisco: Lathan Co., 1454 Pine St.
Colorado — Denver: Quinn & McGill Motor Supply Co., 437 Broadway.
Connecticut — Bridgeport: The Egan Tire & Rubber Co., 31 Courtland St.; Hartford: The Auto Tire Co., Inc., 168 High St.; New Haven: Connecticut Wheel & Rim Co., 669 Chapel St.
District of Columbia—Washington: L. S. Jullien, Inc., 1439 P St., N. W.
Florida—Jacksonville: Scott Sales, Inc., 200 Park Street.
Illinois — Chicago: Chicago Wheel & Spring Co., 414 E. 34th St.; Fred L. Meckel, 9 East 13th St.
Indiana — Evansville: Fausch-Enders Co., 424 Sycamore St.; Indianapolis: Madden-Copple Co., Inc., 733 N. Capital Ave.; South Bend: National Brake Service, 223 N. Jefferson Blvd.
Iowa — Des Moines: Des Moines Wheel & Rim Co., 1427 Walnut St.
Kansas — Wichita: Kirk Brake and Auto Service.
Kentucky—Louisville: Broadway Center Auto Service, 301 Broadway East.
Louisiana — New Orleans: John M. Walton, 762 St. Charles St.; Shreveport: General Motor Truck Co. of Louisiana, 222-224 Beach Street.
Maryland — Baltimore: Parks & Hull, Inc., 1031 Cathedral St.
Massachusetts — Boston: V. A. Nielsen Co., 701 Beacon St.; Springfield: The Newhouse Service Co., 64-66 Howard St.
Michigan—Detroit: Automotive Maintenance Co., 442 Vernor Highway W.; Detroit: B-K Brake Appliance Co., 3961 Cass Ave.; Grand Rapids: Aupperlee & Veltman, 316 Bond Ave., N. W.
Minnesota—Minneapolis: Wheels Service Co., 139 South 11th St.
Missouri — Kansas City: Luthy Equipment Co., 2400 Grand Ave.; St. Louis: Borbein, Young and Co., 3301 Washington Blvd.
Nebraska — Omaha: Yousem Battery & Tire Co., 2124 St. Mary's Ave.
New Hampshire — Manchester: Williams Motor Co., 48 W. Bridge St.
New Jersey — Newark: Essex Sales Co., 234-236 Central Ave.
New York — Albany: Jacob Becker and Sons, 1268 Broadway; Brooklyn: Gunderman and Son, Inc., 370 Fourth Ave.; Buffalo: Truck Equipment Co., 1791 Fillmore Ave.; Long Island City: Bragg-Kliesrath Corporation; Mount Vernon: Oakwood Motor Co., 32 South 6th St.; New York City: Smith & Gregory Co., 426 West 55th St.; Rochester: Gordon Motor Parts, Inc., 30-36 Joseph Ave.; Syracuse: Syracuse Auto Parts, Inc., 1115 W. Genesee St.; Utica: Broadway Brake Service, 411 Broadway.
North Carolina—Charlotte: Power Brake Co., 432 S. Tryon St.
Ohio — Cincinnati: F & N Motor Co., 2130-38 Spring Grove Ave.; Cleveland: Raybestos Brake Service Co., 1721 Superior Ave.; Columbus: The Hughes-Scott Service Co., 165-7 North 4th St.; Toledo: Gillespie-Curtin-Collins, Inc., 2212 Madison Ave.
Oklahoma — Oklahoma City: The J. C. Hamilton Co., 123 West 3rd St.; Tulsa: Williamson Motors, Inc., 425 East 3rd St., M. M. Williamson.
Oregon — Portland: Earl B. Staley Co., East 2nd and Irving St.
Pennsylvania—Allentown: Allentown Brake & Wheel Service, 201 S. 11th St.; Erie: Richard B. Wolfe, 32 East 18th St.; Harrisburg: Shaffer's Super Service Station, 60-68 S. Cameron St.; Philadelphia: McCarthy Bros., 2253 N. Broad St.; Pittsburgh: Schnabel Co., South 10th St.; Pittsburgh: Bendix-Westinghouse Automotive Air Brake Co., 5001 Centre Ave.; Reading: Dave Sternbergh, Inc., 228 N. 5th St.; Wilkes-Barre: Hughes Brake Specialist, 12 Butler Lane.
Rhode Island — Providence: Palmer Spring Co., 1 Althea St.
Tennessee—Memphis: Borbein-Young & Co., 848 Union St.
Texas — Dallas: The J. J. Gibson Co., 2016 Canton St.; Fort Worth: The J. J. Gibson Co., 317 West 13th St.; San Antonio: Emig Service Stores, Inc.; Houston: Houston Trailmobile and Equipment Co.
Utah — Salt Lake City: Intermountain Electric Co., 43 East 4th St., South.
Virginia — Richmond: Dixie Wheel Co., Inc., 1012 North Blvd.
Washington — Seattle: Earl B. Staley Co., 911-13 Eleventh Ave.; Spokane: Bearing and Rim Supply Co., 1125 First Ave.
West Virginia — Charleston: O. E. Royal, Inc., 617 Washington St.
Wisconsin — Milwaukee: Johnson-Weborg, Inc., 764 32nd St.

FOREIGN DISTRIBUTORS

Australia — Sydney: J. B. Clarkson and Co., Ltd., Sirius House, 11 Macquaire Pl.
British Isles — Birmingham, England: Bendix-Perrot Brakes, Ltd., Westwood Rd., Witton.
Canada—Hamilton: Goodale Transport, Ltd.; Montreal: Brake Service Registered Prop. 4269 St. Catherine St., W.; Toronto: Toronto Brake Service, 137 Richmond St., W.; Walkerville: Trucks and Parts, Ltd.; Vancouver: Boultbee Limited, 999 Seymour Street.
South America — Argentina: LaGrange and Hasfeld, Ltd., Suipacha No. 26, Buenos Aires

All brakes are POWER BRAKES *when equipped with*

NO matter what the present brake equipment, on bus, truck, runabout, or limousine, the addition of a B-K Vacuum Brake Booster will give you *power brakes.*

Why stop a heavy car with human muscles when the engine has power to spare for that purpose?

B-K Vacuum Brake Boosters utilize the vacuum from the intake manifold to operate the brakes.

Made in 27 models for every type of vehicle, B-K Brake Boosters are opening up a rich field for distributors, dealers, service stations.

B-K VACUUM BRAKE BOOSTER
A BENDIX PRODUCT

Selling price is attractive, profit good—installation simple.

For Ford and Chevrolet

Simple, inexpensive, quickly installed B-K Systems now ready for these cars.

The B-K Franchise is a money maker. Some desirable territories still open. Write for particulars.

BRAGG-KLIESRATH CORPORATION

QUEENS BLVD. AND HAROLD AVE.
Long Island City, New York
(DIVISION OF BENDIX AVIATION CORPORATION)

Digitized by Google

CHAMPION

SPARK PLUGS

Excel and Outsell Throughout the World

The better spark plugs for every kind of service . . .

Passenger Cars
Trucks
Buses
Fleets
Marine
Tractors
Aviation
Commercial Cars
Stationary Engines

CHAMPION SPARK PLUG COMPANY
TOLEDO, OHIO WINDSOR, ONTARIO

Standardize on Champions for Better Performance & Greater Profits

Digitized by Google